

**5D Plan Report**

Synergy Resources

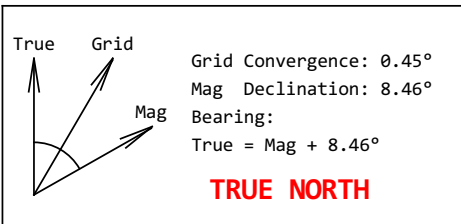
Field Name: *CO N - NAD 83*
Site Name: *Goetzel 25-29 Pad*
Well Name: *Goetzel 32N-30B-M*
Plan: *P1:V1*

5 December 2016





Goetzel 32N-30B-M
Weld County, CO
Precision 562



Plan Data for Goetzel 32N-30B-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
2000.00	0.00	0.00	2000.00	0.00	-0.00	0.00	0.00	0.0
2936.76	18.74	85.49	2920.16	11.95	151.33	-151.71	2.00	85.5
6204.67	18.74	85.49	6014.90	94.57	1197.71	-1200.71	0.00	0.0
7563.76	90.00	267.14	6961.00	69.95	519.81	-522.38	8.00	181.7
15473.86	90.00	267.14	6961.00	-324.95	-7380.43	7387.58	0.00	0.0

Target Set Information:

Name: Goetzel 32N-30B-M

Position offsets from Slot centre

Name	TVD	+N/-S	+E/-W	Northing	Easting	Lat	Long
	(USft)	(USft)	(USft)	(USft)	(USft)	(°)	(°)
LP 32N-30B-M	6961.00	69.95	519.81	1410537.04	3194156.96	40.458229	-104.802267
PBHL 32N-30B-M	6961.00	-324.95	-7380.43	1410080.15	3186260.06	40.457142	-104.830657



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

Plan Data for Goetzel 32N-30B-M

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

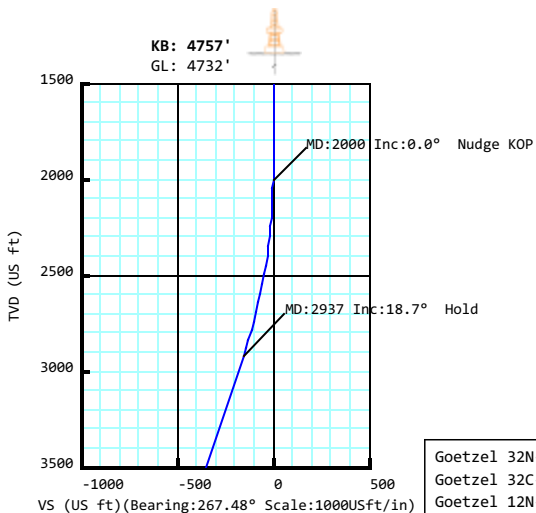
Site: Goetzel 25-29 Pad
Unit: USFeet
TVD Reference:
Company Name: Synergy Resources

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

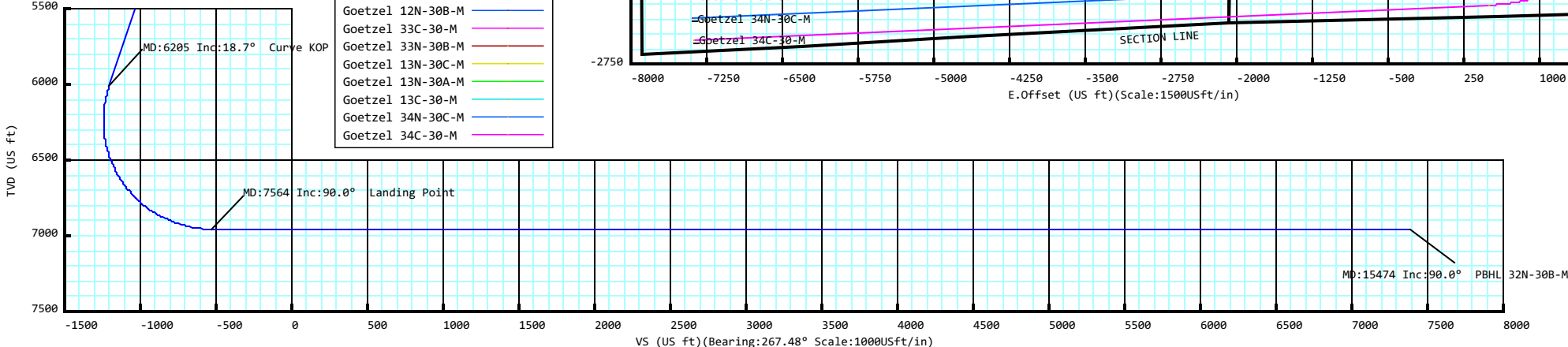
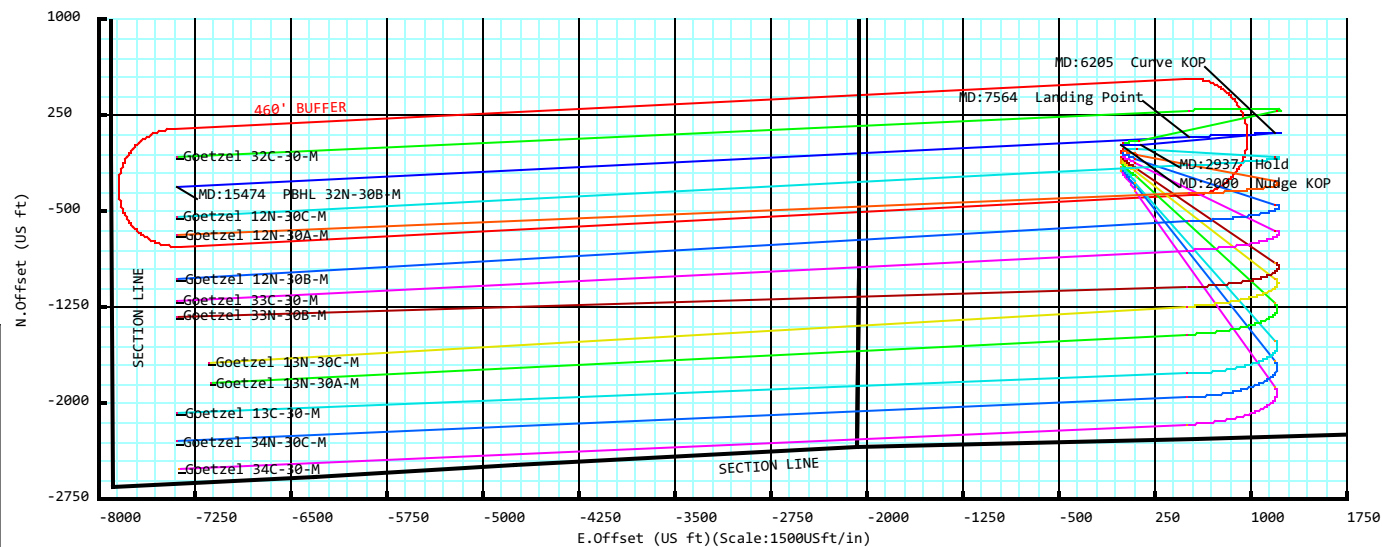
Slot: Goetzel 32N-30B-M
Position:
Offset is from Site centre
+N/-S: -20.04USft
Northing: 1410463.01USft
Latitude: 40.458037°
+E/-W: -0.28USft
Easting: 3193637.71USft
Longitude: -104.804135°
Elevation Above VRD: 4732.00USft

Well: Goetzel 32N-30B-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: 267.48°
+E/-W: 0.00USft
Magnetic Parameters:
Model: Field Strength: Declination: Dip: Date:
bggm2016 52524(nT) 8.46° 66.93° 2016-11-18



- Goetzel 32N-30B-M
- Goetzel 32C-30-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 32N-30B-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 32N-30B-M	Position (Relative to Site Centre)			
	+N/-S: -20.04 US ft	Northing: 1410463.01 US ft		Latitude: 40.458037000
	+E/-W: -0.28 US ft	Easting: 3193637.71 US ft		Longitude: -104.804135000
	Slot TVD Reference: Ground Elevation			
	Elevation above MSL: 4732.00 US ft			
Comment:				
Well: Goetzel 32N-30B-M	Type:Main well		UWI:	Plan:P1:V1
	File Number:	Comment:		
	Closure Distance:7387.58US ft		Closure Azimuth:267.48°	
	Vertical Section: Position of Origin (Relative to Slot centre)			
	+N/-S: 0.00 US ft		+E/-W: 0.00 US ft	
	Az: 267.48°			
	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 32N-30B-M Comment:

Target Name:	Shape:	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (USFt)	Easting (USFt)	Comment
LP 32N-30B-M	Point	6961.00	69.95	519.81	1410537.04	3194156.96	
PBHL 32N-30B-M	Point	6961.00	-324.95	-7380.43	1410080.15	3186260.06	

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	
2000.00	0.00	0.00	2000.00	0.00	0.00	-0.00	0.00	0.00	0.00	Nudge KOP
2936.76	18.74	85.49	2920.16	-151.71	11.95	151.33	2.00	0.00	2.00	Hold
6204.67	18.74	85.49	6014.90	-1200.71	94.57	1197.71	0.00	0.00	0.00	Curve KOP
7563.76	90.00	267.14	6961.00	-522.38	69.95	519.81	5.24	-13.12	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
15473.86	90.00	267.14	6961.00	7387.58	-324.95	-7380.43	0.00	0.00	0.00	PBHL 32N-30B-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	
1900.00	0.00	0.00	1900.00	0.00	0.00	-0.00	0.00	0.00	0.00	
2000.00	0.00	0.00	2000.00	0.00	0.00	-0.00	0.00	0.00	0.00	Nudge KOP
2100.00	2.00	85.49	2099.98	-1.74	0.14	1.74	2.00	0.00	2.00	
2200.00	4.00	85.49	2199.84	-6.97	0.55	6.96	2.00	0.00	2.00	
2300.00	6.00	85.49	2299.45	-15.68	1.24	15.64	2.00	0.00	2.00	
2400.00	8.00	85.49	2398.70	-27.86	2.19	27.79	2.00	-0.00	2.00	
2500.00	10.00	85.49	2497.47	-43.50	3.43	43.39	2.00	0.00	2.00	
2600.00	12.00	85.49	2595.62	-62.56	4.93	62.41	2.00	-0.00	2.00	
2700.00	14.00	85.49	2693.06	-85.04	6.70	84.83	2.00	0.00	2.00	
2800.00	16.00	85.49	2789.64	-110.91	8.74	110.63	2.00	-0.00	2.00	
2900.00	18.00	85.49	2885.27	-140.13	11.04	139.78	2.00	-0.00	2.00	
2936.76	18.74	85.49	2920.16	-151.71	11.95	151.33	2.00	0.00	2.00	Hold
3000.00	18.74	85.49	2980.04	-172.00	13.55	171.57	0.00	0.00	0.00	
3100.00	18.74	85.49	3074.75	-204.10	16.08	203.59	0.00	0.00	0.00	
3200.00	18.74	85.49	3169.45	-236.20	18.60	235.61	0.00	0.00	0.00	
3300.00	18.74	85.49	3264.15	-268.30	21.13	267.63	0.00	0.00	0.00	
3400.00	18.74	85.49	3358.85	-300.41	23.66	299.65	0.00	0.00	0.00	
3500.00	18.74	85.49	3453.55	-332.51	26.19	331.67	0.00	0.00	0.00	
3600.00	18.74	85.49	3548.25	-364.61	28.72	363.69	0.00	0.00	0.00	
3700.00	18.74	85.49	3642.95	-396.71	31.24	395.71	0.00	0.00	0.00	
3800.00	18.74	85.49	3737.65	-428.81	33.77	427.73	0.00	0.00	0.00	
3900.00	18.74	85.49	3832.36	-460.91	36.30	459.75	0.00	0.00	0.00	
4000.00	18.74	85.49	3927.06	-493.01	38.83	491.77	0.00	0.00	0.00	
4100.00	18.74	85.49	4021.76	-525.11	41.36	523.79	0.00	0.00	0.00	
4200.00	18.74	85.49	4116.46	-557.21	43.89	555.81	0.00	0.00	0.00	
4300.00	18.74	85.49	4211.16	-589.31	46.41	587.83	0.00	0.00	0.00	
4400.00	18.74	85.49	4305.86	-621.41	48.94	619.85	0.00	0.00	0.00	
4500.00	18.74	85.49	4400.56	-653.51	51.47	651.87	0.00	0.00	0.00	
4600.00	18.74	85.49	4495.26	-685.61	54.00	683.89	0.00	0.00	0.00	
4700.00	18.74	85.49	4589.97	-717.71	56.53	715.91	0.00	0.00	0.00	
4800.00	18.74	85.49	4684.67	-749.81	59.06	747.93	0.00	0.00	0.00	
4900.00	18.74	85.49	4779.37	-781.91	61.58	779.95	0.00	0.00	0.00	
5000.00	18.74	85.49	4874.07	-814.01	64.11	811.97	0.00	0.00	0.00	
5100.00	18.74	85.49	4968.77	-846.11	66.64	843.99	0.00	0.00	0.00	
5200.00	18.74	85.49	5063.47	-878.21	69.17	876.01	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	18.74	85.49	5158.17	-910.31	71.70	908.03	0.00	0.00	0.00	
5400.00	18.74	85.49	5252.88	-942.41	74.22	940.05	0.00	0.00	0.00	
5500.00	18.74	85.49	5347.58	-974.51	76.75	972.07	0.00	0.00	0.00	
5600.00	18.74	85.49	5442.28	-1006.61	79.28	1004.09	0.00	0.00	0.00	
5700.00	18.74	85.49	5536.98	-1038.71	81.81	1036.11	0.00	0.00	0.00	
5800.00	18.74	85.49	5631.68	-1070.81	84.34	1068.13	0.00	0.00	0.00	
5900.00	18.74	85.49	5726.38	-1102.91	86.87	1100.15	0.00	0.00	0.00	
6000.00	18.74	85.49	5821.08	-1135.01	89.39	1132.17	0.00	0.00	0.00	
6100.00	18.74	85.49	5915.78	-1167.11	91.92	1164.19	0.00	0.00	0.00	
6200.00	18.74	85.49	6010.49	-1199.21	94.45	1196.21	0.00	0.00	0.00	
6204.67	18.74	85.49	6014.90	-1200.71	94.57	1197.71	0.00	0.00	0.00	Curve KOP
6300.00	11.11	84.28	6106.95	-1225.22	96.69	1222.15	-7.99	-1.26	8.00	
6400.00	3.15	76.90	6206.10	-1237.56	98.28	1234.44	-7.96	-7.38	8.00	
6500.00	4.93	273.65	6306.00	-1235.99	99.18	1232.82	1.78	-163.25	8.00	
6600.00	12.91	269.58	6404.71	-1220.53	99.37	1217.33	7.98	-4.06	8.00	
6700.00	20.91	268.61	6500.31	-1191.48	98.85	1188.28	8.00	-0.98	8.00	
6800.00	28.90	268.15	6590.94	-1149.40	97.64	1146.22	8.00	-0.45	8.00	
6900.00	36.90	267.88	6674.83	-1095.13	95.75	1091.97	8.00	-0.27	8.00	
7000.00	44.90	267.70	6750.35	-1029.70	93.22	1026.60	8.00	-0.18	8.00	
7100.00	52.90	267.56	6816.03	-954.41	90.10	951.36	8.00	-0.14	8.00	
7200.00	60.90	267.45	6870.60	-870.70	86.46	867.74	8.00	-0.11	8.00	
7300.00	68.90	267.35	6912.98	-780.22	82.35	777.35	8.00	-0.10	8.00	
7400.00	76.90	267.27	6942.36	-684.72	77.87	681.95	8.00	-0.09	8.00	
7500.00	84.90	267.19	6958.16	-586.05	73.10	583.40	8.00	-0.08	8.00	
7563.76	90.00	267.14	6961.00	-522.38	69.95	519.81	8.00	-0.08	8.00	Landing Point
7600.00	90.00	267.14	6961.00	-486.14	68.14	483.61	0.00	0.00	0.00	
7700.00	90.00	267.14	6961.00	-386.14	63.15	383.74	0.00	0.00	0.00	
7800.00	90.00	267.14	6961.00	-286.14	58.16	283.86	0.00	0.00	0.00	
7900.00	90.00	267.14	6961.00	-186.15	53.16	183.99	0.00	0.00	0.00	
8000.00	90.00	267.14	6961.00	-86.15	48.17	84.11	0.00	0.00	0.00	
8100.00	90.00	267.14	6961.00	13.85	43.18	-15.76	0.00	0.00	0.00	
8200.00	90.00	267.14	6961.00	113.85	38.19	-115.64	0.00	0.00	0.00	
8300.00	90.00	267.14	6961.00	213.85	33.20	-215.52	0.00	0.00	0.00	
8400.00	90.00	267.14	6961.00	313.85	28.20	-315.39	0.00	0.00	0.00	
8500.00	90.00	267.14	6961.00	413.84	23.21	-415.27	0.00	0.00	0.00	
8600.00	90.00	267.14	6961.00	513.84	18.22	-515.14	0.00	0.00	0.00	
8700.00	90.00	267.14	6961.00	613.84	13.23	-615.02	0.00	0.00	0.00	
8800.00	90.00	267.14	6961.00	713.84	8.23	-714.89	0.00	0.00	0.00	
8900.00	90.00	267.14	6961.00	813.84	3.24	-814.77	0.00	0.00	0.00	
9000.00	90.00	267.14	6961.00	913.83	-1.75	-914.64	0.00	0.00	0.00	
9100.00	90.00	267.14	6961.00	1013.83	-6.74	-1014.52	0.00	0.00	0.00	
9200.00	90.00	267.14	6961.00	1113.83	-11.74	-1114.39	0.00	0.00	0.00	
9300.00	90.00	267.14	6961.00	1213.83	-16.73	-1214.27	0.00	0.00	0.00	
9400.00	90.00	267.14	6961.00	1313.83	-21.72	-1314.14	0.00	0.00	0.00	
9500.00	90.00	267.14	6961.00	1413.83	-26.71	-1414.02	0.00	0.00	0.00	
9600.00	90.00	267.14	6961.00	1513.82	-31.70	-1513.89	0.00	0.00	0.00	
9700.00	90.00	267.14	6961.00	1613.82	-36.70	-1613.77	0.00	0.00	0.00	
9800.00	90.00	267.14	6961.00	1713.82	-41.69	-1713.65	0.00	0.00	0.00	
9900.00	90.00	267.14	6961.00	1813.82	-46.68	-1813.52	0.00	0.00	0.00	
10000.00	90.00	267.14	6961.00	1913.82	-51.67	-1913.40	0.00	0.00	0.00	
10100.00	90.00	267.14	6961.00	2013.82	-56.67	-2013.27	0.00	0.00	0.00	
10200.00	90.00	267.14	6961.00	2113.81	-61.66	-2113.15	0.00	0.00	0.00	
10300.00	90.00	267.14	6961.00	2213.81	-66.65	-2213.02	0.00	0.00	0.00	
10400.00	90.00	267.14	6961.00	2313.81	-71.64	-2312.90	0.00	0.00	0.00	
10500.00	90.00	267.14	6961.00	2413.81	-76.64	-2412.77	0.00	0.00	0.00	
10600.00	90.00	267.14	6961.00	2513.81	-81.63	-2512.65	0.00	0.00	0.00	
10700.00	90.00	267.14	6961.00	2613.80	-86.62	-2612.52	0.00	0.00	0.00	
10800.00	90.00	267.14	6961.00	2713.80	-91.61	-2712.40	0.00	0.00	0.00	
10900.00	90.00	267.14	6961.00	2813.80	-96.60	-2812.27	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	267.14	6961.00	2913.80	-101.60	-2912.15	0.00	0.00	0.00	
11100.00	90.00	267.14	6961.00	3013.80	-106.59	-3012.02	0.00	0.00	0.00	
11200.00	90.00	267.14	6961.00	3113.80	-111.58	-3111.90	0.00	0.00	0.00	
11300.00	90.00	267.14	6961.00	3213.79	-116.57	-3211.77	0.00	0.00	0.00	
11400.00	90.00	267.14	6961.00	3313.79	-121.57	-3311.65	0.00	0.00	0.00	
11500.00	90.00	267.14	6961.00	3413.79	-126.56	-3411.53	0.00	0.00	0.00	
11600.00	90.00	267.14	6961.00	3513.79	-131.55	-3511.40	0.00	0.00	0.00	
11700.00	90.00	267.14	6961.00	3613.79	-136.54	-3611.28	0.00	0.00	0.00	
11800.00	90.00	267.14	6961.00	3713.79	-141.54	-3711.15	0.00	0.00	0.00	
11900.00	90.00	267.14	6961.00	3813.78	-146.53	-3811.03	0.00	0.00	0.00	
12000.00	90.00	267.14	6961.00	3913.78	-151.52	-3910.90	0.00	0.00	0.00	
12100.00	90.00	267.14	6961.00	4013.78	-156.51	-4010.78	0.00	0.00	0.00	
12200.00	90.00	267.14	6961.00	4113.78	-161.50	-4110.65	0.00	0.00	0.00	
12300.00	90.00	267.14	6961.00	4213.78	-166.50	-4210.53	0.00	0.00	0.00	
12400.00	90.00	267.14	6961.00	4313.77	-171.49	-4310.40	0.00	0.00	0.00	
12500.00	90.00	267.14	6961.00	4413.77	-176.48	-4410.28	0.00	0.00	0.00	
12600.00	90.00	267.14	6961.00	4513.77	-181.47	-4510.15	0.00	0.00	0.00	
12700.00	90.00	267.14	6961.00	4613.77	-186.47	-4610.03	0.00	0.00	0.00	
12800.00	90.00	267.14	6961.00	4713.77	-191.46	-4709.90	0.00	0.00	0.00	
12900.00	90.00	267.14	6961.00	4813.77	-196.45	-4809.78	0.00	0.00	0.00	
13000.00	90.00	267.14	6961.00	4913.76	-201.44	-4909.65	0.00	0.00	0.00	
13100.00	90.00	267.14	6961.00	5013.76	-206.44	-5009.53	0.00	0.00	0.00	
13200.00	90.00	267.14	6961.00	5113.76	-211.43	-5109.41	0.00	0.00	0.00	
13300.00	90.00	267.14	6961.00	5213.76	-216.42	-5209.28	0.00	0.00	0.00	
13400.00	90.00	267.14	6961.00	5313.76	-221.41	-5309.16	0.00	0.00	0.00	
13500.00	90.00	267.14	6961.00	5413.76	-226.41	-5409.03	0.00	0.00	0.00	
13600.00	90.00	267.14	6961.00	5513.75	-231.40	-5508.91	0.00	0.00	0.00	
13700.00	90.00	267.14	6961.00	5613.75	-236.39	-5608.78	0.00	0.00	0.00	
13800.00	90.00	267.14	6961.00	5713.75	-241.38	-5708.66	0.00	0.00	0.00	
13900.00	90.00	267.14	6961.00	5813.75	-246.37	-5808.53	0.00	0.00	0.00	
14000.00	90.00	267.14	6961.00	5913.75	-251.37	-5908.41	0.00	0.00	0.00	
14100.00	90.00	267.14	6961.00	6013.74	-256.36	-6008.28	0.00	0.00	0.00	
14200.00	90.00	267.14	6961.00	6113.74	-261.35	-6108.16	0.00	0.00	0.00	
14300.00	90.00	267.14	6961.00	6213.74	-266.34	-6208.03	0.00	0.00	0.00	
14400.00	90.00	267.14	6961.00	6313.74	-271.34	-6307.91	0.00	0.00	0.00	
14500.00	90.00	267.14	6961.00	6413.74	-276.33	-6407.78	0.00	0.00	0.00	
14600.00	90.00	267.14	6961.00	6513.74	-281.32	-6507.66	0.00	0.00	0.00	
14700.00	90.00	267.14	6961.00	6613.73	-286.31	-6607.54	0.00	0.00	0.00	
14800.00	90.00	267.14	6961.00	6713.73	-291.31	-6707.41	0.00	0.00	0.00	
14900.00	90.00	267.14	6961.00	6813.73	-296.30	-6807.29	0.00	0.00	0.00	
15000.00	90.00	267.14	6961.00	6913.73	-301.29	-6907.16	0.00	0.00	0.00	
15100.00	90.00	267.14	6961.00	7013.73	-306.28	-7007.04	0.00	0.00	0.00	
15200.00	90.00	267.14	6961.00	7113.72	-311.27	-7106.91	0.00	0.00	0.00	
15300.00	90.00	267.14	6961.00	7213.72	-316.27	-7206.79	0.00	0.00	0.00	
15400.00	90.00	267.14	6961.00	7313.72	-321.26	-7306.66	0.00	0.00	0.00	
15473.86	90.00	267.14	6961.00	7387.58	-324.95	-7380.43	0.00	0.00	0.00	PBHL 32N-30B-M



Synergy Resources

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

5 December 2016

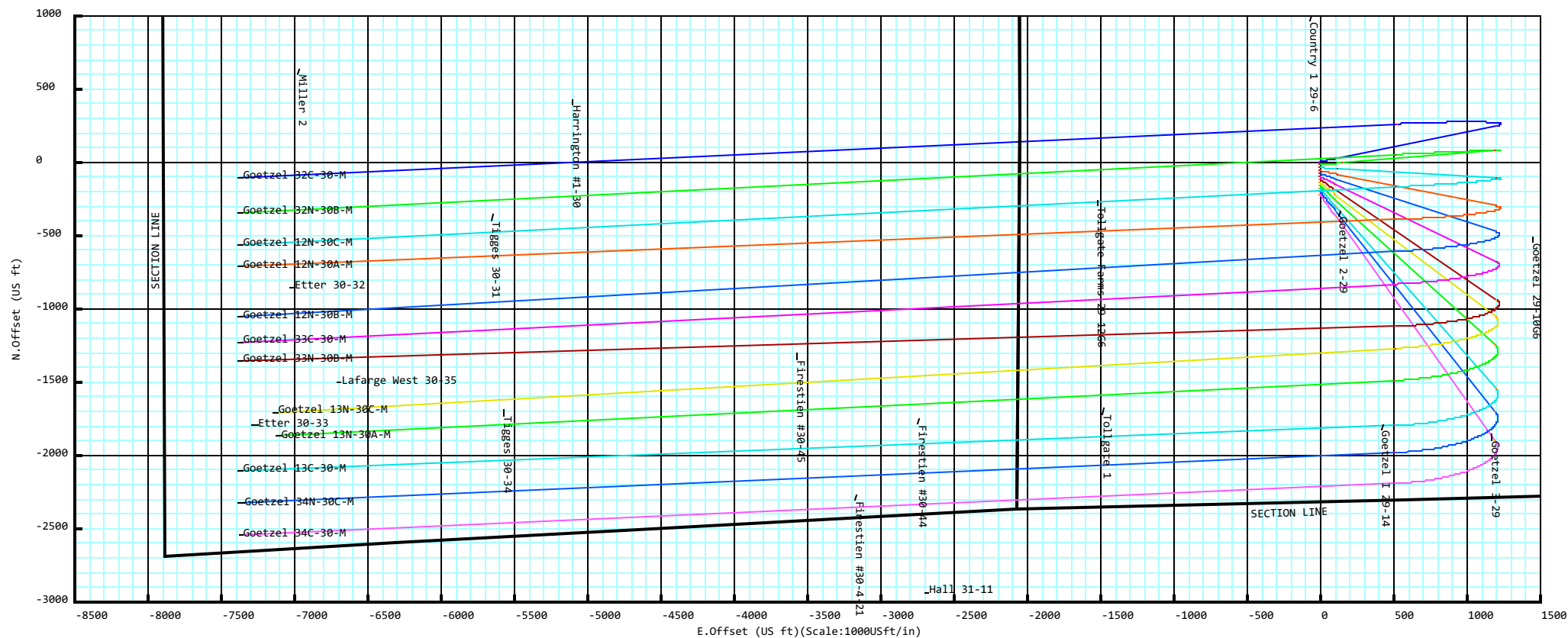




Goetzel Pad Weld County, CO Precision 562

Drawing By: GWR Date: 12/05/2016
Weatherford Drilling Services
7725 W. Reno, Ste. #220
Oklahoma City, OK 73127
+1.405.773.1100 Main
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Goetzel 32C-30-M	
Goetzel 32N-30B-M	
Goetzel 12N-30C-M	
Goetzel 12N-30A-M	
Goetzel 12N-30B-M	
Goetzel 33C-30-M	
Goetzel 33N-30B-M	
Goetzel 13N-30C-M	
Goetzel 13N-30A-M	
Goetzel 13C-30-M	
Goetzel 34N-30C-M	
Goetzel 34C-30-M	
Von Trotha Bros Inc #1	
Harrington #1-30	
Goetzel 2-29	
Goetzel 3-29	
Miller 2	
Tollgate 1	
Tollgate Farms 29-12G6	
Goetzel 29-10G6	
Tigges 30-31	
Etter 30-32	
Etter 30-33	
Tigges 30-34	
Hall 31-11	
Goetzel I 29-14	
Firestien #30-45	
Firestien #30-4-21	
Country 1 29-6	
Firestien #30-44	
Lafarge West 30-35	
Feuerstein #I2963HN	



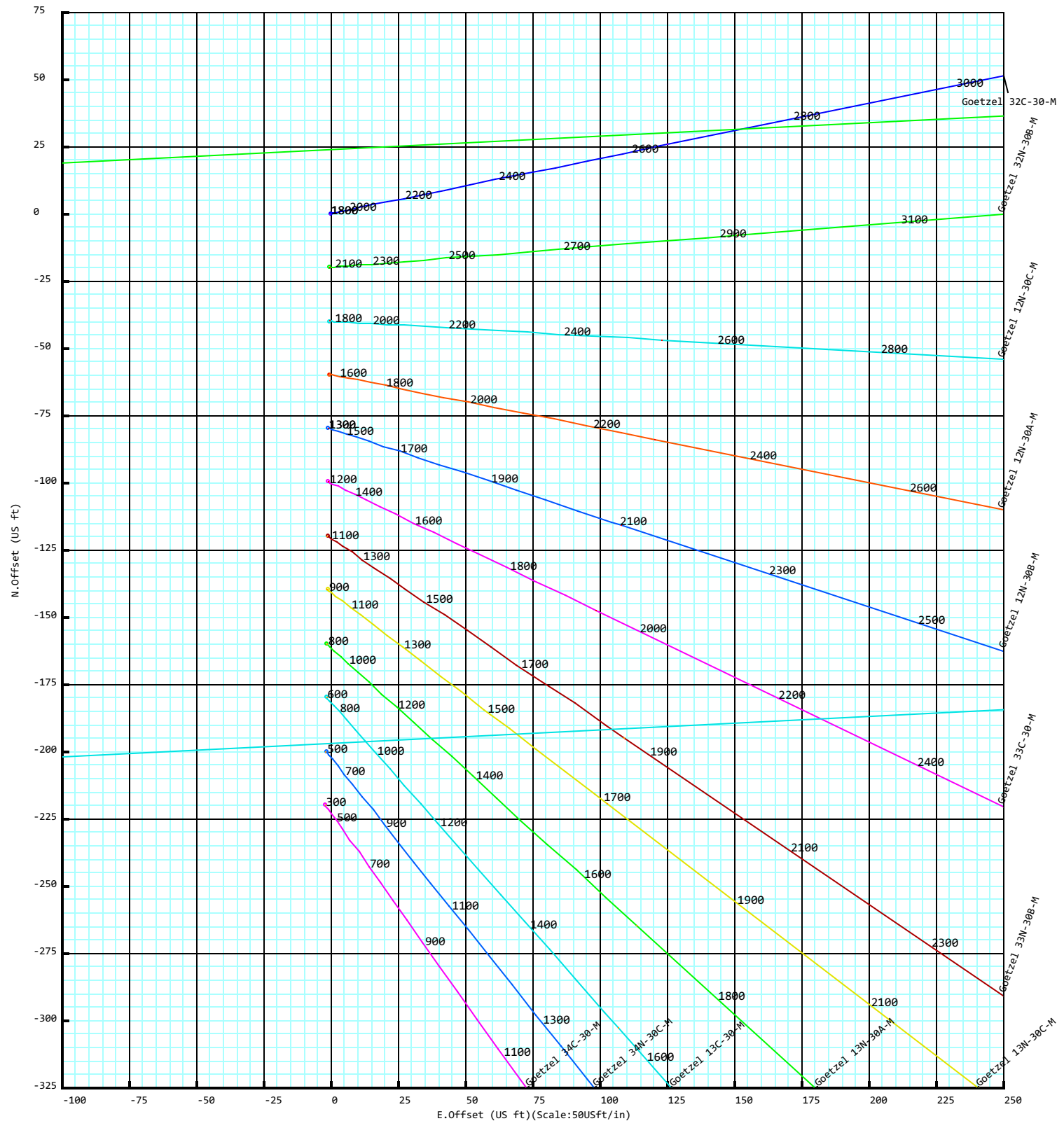


Goetzl Pad
Weld County, CO
Precision 562

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



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



Goetzel 32N-30B-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 32N-30B-M	Position (Relative to Site Centre)			
	+N/-S: -20.04 US ft	Northing: 1410463.01 US ft		Latitude: 40.458037000
	+E/-W: -0.28 US ft	Easting: 3193637.71 US ft		Longitude: -104.804135000
	Slot TVD Reference: Ground Elevation			
	Elevation above MSL: 4732.00 US ft			
	Comment:			
Well: Goetzel 32N-30B-M	Type:Main well		UWI:	Plan:Working Plan
	File Number:	Comment:		
	Closure Distance:7387.58US ft		Closure Azimuth:267.48°	
	Vertical Section: Position of Origin (Relative to Slot centre)			
	+N/-S: 0.00 US ft		+E/-W: 0.00 US ft	Az: 267.48°
	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 32N-30B-M (p)	0.00	15473.86	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)
 Goetzel 32C-30-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
Tigges 30-31 (s)	13739.26	6944.00	6961.00	105.71	-287.83	0.27	SF(Hi)
Goetzel 12N-30C-M (p)	15473.86	15490.62	6961.00	226.89	-229.01	0.50	SF(Hi)
Tollgate Farms 29-12G6 (s)	9611.91	6934.00	6961.00	210.06	-71.07	0.75	SF(Hi)
Goetzel 32C-30-M (p)	15465.49	15644.54	6961.00	297.54	-80.66	0.79	SF(Hi)
Goetzel 12N-30A-M (p)	15473.86	15308.00	6961.00	390.31	-48.89	0.89	SF(Hi)
Etter 30-32 (s)	15150.00	6944.00	6961.00	532.72	100.35	1.23	SF(Med)
Goetzel 2-29 (s)	7960.55	6933.00	6961.00	370.63	127.30	1.52	SF(Lo)
Goetzel 12N-30B-M (p)	15473.86	15402.00	6961.00	715.05	250.73	1.54	SF(Lo)
Goetzel 33C-30-M (p)	15473.86	15558.52	6961.00	894.65	435.91	1.95	SF(Lo)
Goetzel 33N-30B-M (p)	15473.86	15429.02	6961.00	1011.80	547.24	2.18	SF(Lo)
Miller 2 (s)	15050.59	6946.00	6961.00	959.09	529.15	2.23	SF(Lo)
Goetzel 13N-30C-M (p)	15369.92	15286.68	6961.00	1377.92	922.59	3.03	
Goetzel 13N-30A-M (p)	15383.20	15136.85	6961.00	1551.00	1097.84	3.42	
Goetzel 13C-30-M (p)	15473.86	15636.80	6961.00	1764.51	1302.09	3.82	
Goetzel 34N-30C-M (p)	15473.86	15546.31	6961.00	1984.85	1521.99	4.29	
Goetzel 34C-30-M (p)	15473.86	15675.42	6961.00	2206.10	1744.31	4.78	

CC							
Secondary Well Name	Pri MD (US ft)	Sec MD (US ft)	TVD (US ft)	CC (US ft)	ES (US ft)	SF	Risk
Goetzel 12N-30C-M (p)	0.00	0.00	0.00	20.04	19.30	27.32	CC (Med)
Goetzel 32C-30-M (p)	50.00	50.00	50.00	20.04	19.19	23.75	CC (Med)
Goetzel 12N-30A-M (p)	0.00	0.00	0.00	39.71	38.98	54.15	CC (Lo)
Goetzel 12N-30B-M (p)	0.00	0.00	0.00	59.75	59.01	81.48	CC (Lo)
Goetzel 33C-30-M (p)	50.00	50.00	50.00	79.78	78.94	94.57	
Goetzel 33N-30B-M (p)	0.00	0.00	0.00	99.82	99.09	136.12	
Tigges 30-31 (s)	13740.63	6944.00	6961.00	105.70	-287.74	0.27	SF(Hi)
Goetzel 13N-30C-M (p)	0.00	0.00	0.00	119.86	119.12	163.45	
Goetzel 13N-30A-M (p)	0.00	0.00	0.00	139.90	139.16	190.77	
Goetzel 13C-30-M (p)	50.00	50.00	50.00	159.93	159.09	189.58	
Goetzel 34N-30C-M (p)	0.00	0.00	0.00	179.97	179.24	245.42	
Goetzel 34C-30-M (p)	0.00	0.00	0.00	200.01	199.28	272.75	
Tollgate Farms 29-12G6 (s)	9614.65	6934.00	6961.00	210.04	-71.02	0.75	SF(Hi)
Goetzel 2-29 (s)	2803.13	2764.65	2792.65	330.05	241.90	3.74	
Etter 30-32 (s)	15144.53	6944.00	6961.00	532.69	100.33	1.23	SF(Med)
Miller 2 (s)	15006.84	6946.00	6961.00	958.10	529.49	2.24	SF(Lo)

Primary Well: Goetzel 32N-30B-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	179.55	20.04	19.30	27.32	Goetzel 12N-30C-M (p)	CC (Med)
100.00	0.00	0.00	100.00	0.11	0.11	179.55	20.04	19.08	21.00	Goetzel 12N-30C-M (p)	CC (Med)

5D Anti-Collision Report

Primary Well: Goetzel 32N-30B-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
200.00	0.00	0.00	200.00	0.34	0.34	179.55	20.04	18.63	14.28	Goetzel 12N-30C-M (p)	CC (Med)
300.00	0.00	0.00	300.00	0.56	0.56	179.55	20.04	18.18	10.81	Goetzel 12N-30C-M (p)	CC (Med)
400.00	0.00	0.00	400.00	0.79	0.79	179.55	20.04	17.73	8.70	Goetzel 12N-30C-M (p)	CC (Med)
500.00	0.00	0.00	500.00	1.01	1.01	179.55	20.04	17.28	7.28	Goetzel 12N-30C-M (p)	CC (Med)
600.00	0.00	0.00	600.00	1.24	1.24	179.55	20.04	16.83	6.26	Goetzel 12N-30C-M (p)	CC (Med)
700.00	0.00	0.00	700.00	1.46	1.46	179.55	20.04	16.39	5.49	Goetzel 12N-30C-M (p)	CC (Med)
800.00	0.00	0.00	800.00	1.69	1.69	179.55	20.04	15.94	4.89	Goetzel 12N-30C-M (p)	CC (Med)
900.00	0.00	0.00	900.00	1.91	1.91	179.55	20.04	15.49	4.40	Goetzel 12N-30C-M (p)	CC (Med)
1000.00	0.00	0.00	1000.00	2.14	2.14	179.55	20.04	15.04	4.01	Goetzel 12N-30C-M (p)	CC (Med)
1100.00	0.00	0.00	1100.00	2.36	2.36	179.55	20.04	14.59	3.68	Goetzel 12N-30C-M (p)	CC (Med)
1200.00	0.00	0.00	1200.00	2.58	2.58	179.55	20.04	14.14	3.40	Goetzel 12N-30C-M (p)	CC (Med)
1300.00	0.00	0.00	1300.00	2.81	2.81	179.55	20.04	13.69	3.16	Goetzel 12N-30C-M (p)	CC (Med)
1400.00	0.00	0.00	1400.00	3.03	3.03	179.55	20.04	13.24	2.95	Goetzel 12N-30C-M (p)	CC (Med)
1500.00	0.00	0.00	1500.00	3.26	3.26	179.55	20.04	12.79	2.76	Goetzel 12N-30C-M (p)	CC (Med)
1600.00	0.00	0.00	1600.00	3.48	3.48	179.55	20.04	12.34	2.60	Goetzel 12N-30C-M (p)	CC (Med)
1700.00	0.00	0.00	1700.00	3.71	3.71	179.55	20.04	11.89	2.46	Goetzel 12N-30C-M (p)	SF(Lo); CC (Med)
1800.00	0.00	0.00	1800.00	3.93	3.93	0.35	20.04	11.44	2.33	Goetzel 32C-30-M (p)	SF(Lo); CC (Med)
1900.00	0.00	0.00	1900.00	4.16	4.16	5.10	20.48	11.48	2.27	Goetzel 32C-30-M (p)	SF(Lo); CC (Med)
2000.00	0.00	0.00	2000.00	4.38	4.38	17.82	22.58	13.13	2.39	Goetzel 32C-30-M (p)	SF(Lo); CC (Med)
2100.00	2.00	85.04	2099.98	4.60	4.59	305.52	26.89	17.05	2.73	Goetzel 32C-30-M (p)	CC (Med)
2200.00	4.00	85.04	2199.84	4.80	4.79	313.85	32.40	22.16	3.16	Goetzel 32C-30-M (p)	CC (Med)
2300.00	6.00	85.04	2299.45	5.01	4.98	319.16	38.62	27.97	3.62	Goetzel 32C-30-M (p)	CC (Lo)
2400.00	8.00	85.04	2398.70	5.24	5.17	322.51	45.27	34.22	4.09	Goetzel 32C-30-M (p)	CC (Lo)
2500.00	10.00	85.04	2497.47	5.49	5.36	78.48	337.04	258.64	4.30	Goetzel 2- 29 (s)	
2500.00	10.00	85.04	2497.47	5.49	5.36	324.60	52.21	40.73	4.55	Goetzel 32C-30-M (p)	CC (Lo)
2600.00	12.00	85.04	2595.62	5.76	5.55	81.70	333.70	252.05	4.09	Goetzel 2- 29 (s)	

5D Anti-Collision Report

Primary Well: Goetzel 32N-30B-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	12.00	85.04	2595.62	5.76	5.55	325.83	59.35	47.42	4.98	Goetzel 32C-30-M (p)	CC (Lo)
2700.00	14.00	85.04	2693.06	6.07	5.74	85.51	331.13	246.07	3.89	Goetzel 2- 29 (s)	
2700.00	14.00	85.04	2693.06	6.07	5.74	326.42	66.52	54.11	5.36	Goetzel 32C-30-M (p)	
2800.00	16.00	85.04	2789.64	6.43	5.93	89.86	330.05	241.99	3.75	Goetzel 2- 29 (s)	
2800.00	16.00	85.04	2789.64	6.43	5.93	325.65	71.53	58.54	5.51	Goetzel 32C-30-M (p)	
2900.00	18.00	85.04	2885.27	6.84	6.12	94.67	331.27	239.59	3.61	Goetzel 2- 29 (s)	
2900.00	18.00	85.04	2885.27	6.84	6.12	323.41	73.72	60.06	5.40	Goetzel 32C-30-M (p)	
3000.00	18.74	85.04	2980.04	7.31	6.35	99.81	335.51	240.79	3.54	Goetzel 2- 29 (s)	
3000.00	18.74	85.04	2980.04	7.31	6.35	319.92	73.86	59.41	5.11	Goetzel 32C-30-M (p)	
3100.00	18.74	85.04	3074.75	7.81	6.59	104.85	342.74	244.40	3.49	Goetzel 2- 29 (s)	
3100.00	18.74	85.04	3074.75	7.81	6.59	316.33	74.11	58.79	4.84	Goetzel 32C-30-M (p)	
3200.00	18.74	85.04	3169.45	8.34	6.85	109.66	352.75	251.36	3.48	Goetzel 2- 29 (s)	
3200.00	18.74	85.04	3169.45	8.34	6.85	312.78	74.64	58.36	4.59	Goetzel 32C-30-M (p)	
3300.00	18.74	85.04	3264.15	8.89	7.10	114.20	365.33	260.35	3.48	Goetzel 2- 29 (s)	
3300.00	18.74	85.04	3264.15	8.89	7.10	309.29	75.46	58.11	4.35	Goetzel 32C-30-M (p)	
3400.00	18.74	85.04	3358.85	9.45	7.36	118.44	380.21	272.30	3.52	Goetzel 2- 29 (s)	
3400.00	18.74	85.04	3358.85	9.45	7.36	305.89	76.55	58.04	4.14	Goetzel 32C-30-M (p)	
3500.00	18.74	85.04	3453.55	10.04	7.63	122.36	397.13	285.65	3.56	Goetzel 2- 29 (s)	
3500.00	18.74	85.04	3453.55	10.04	7.63	302.59	77.90	58.18	3.95	Goetzel 32C-30-M (p)	
3600.00	18.74	85.04	3548.25	10.63	7.90	125.98	415.86	301.19	3.63	Goetzel 2- 29 (s)	
3600.00	18.74	85.04	3548.25	10.63	7.90	299.42	79.51	58.51	3.79	Goetzel 32C-30-M (p)	
3700.00	18.74	85.04	3642.95	11.23	8.18	296.38	81.34	59.04	3.65	Goetzel 32C-30-M (p)	
3800.00	18.74	85.04	3737.65	11.85	8.45	293.49	83.40	59.77	3.53	Goetzel 32C-30-M (p)	
3900.00	18.74	85.04	3832.36	12.47	8.73	290.74	85.65	60.68	3.43	Goetzel 32C-30-M (p)	
4000.00	18.74	85.04	3927.06	13.09	9.02	288.13	88.10	61.77	3.35	Goetzel 32C-30-M (p)	
4100.00	18.74	85.04	4021.76	13.73	9.30	285.67	90.72	63.02	3.28	Goetzel 32C-30-M (p)	
4200.00	18.74	85.04	4116.46	14.36	9.59	283.36	93.49	64.42	3.22	Goetzel 32C-30-M (p)	
4300.00	18.74	85.04	4211.16	15.01	9.88	281.18	96.41	65.99	3.17	Goetzel 32C-30-M (p)	

5D Anti-Collision Report

Primary Well: Goetzel 32N-30B-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
4400.00	18.74	85.04	4305.86	15.65	10.17	279.13	99.46	67.72	3.13	Goetzel 32C-30-M (p)	
4500.00	18.74	85.04	4400.56	16.30	10.46	277.20	102.63	69.53	3.10	Goetzel 32C-30-M (p)	
4600.00	18.74	85.04	4495.26	16.95	10.76	275.39	105.91	71.48	3.08	Goetzel 32C-30-M (p)	
4700.00	18.74	85.04	4589.97	17.60	11.06	273.69	109.29	73.56	3.06	Goetzel 32C-30-M (p)	
4800.00	18.74	85.04	4684.67	18.26	11.35	272.10	112.76	75.72	3.04	Goetzel 32C-30-M (p)	
4900.00	18.74	85.04	4779.37	18.92	11.65	270.60	116.31	77.96	3.03	Goetzel 32C-30-M (p)	
5000.00	18.74	85.04	4874.07	19.58	11.95	269.19	119.93	80.29	3.03	Goetzel 32C-30-M (p)	
5100.00	18.74	85.04	4968.77	20.24	12.25	267.86	123.62	82.70	3.02	Goetzel 32C-30-M (p)	
5200.00	18.74	85.04	5063.47	20.90	12.55	266.61	127.38	85.20	3.02	Goetzel 32C-30-M (p)	
5300.00	18.74	85.04	5158.17	21.57	12.86	265.44	131.19	87.77	3.02	Goetzel 32C-30-M (p)	
5400.00	18.74	85.04	5252.88	22.23	13.16	264.33	135.06	90.41	3.02	Goetzel 32C-30-M (p)	
5500.00	18.74	85.04	5347.58	22.90	13.46	263.28	138.97	93.11	3.03	Goetzel 32C-30-M (p)	
5600.00	18.74	85.04	5442.28	23.57	13.77	262.29	142.93	95.84	3.04	Goetzel 32C-30-M (p)	
5700.00	18.74	85.04	5536.98	24.24	14.08	261.35	146.92	98.60	3.04	Goetzel 32C-30-M (p)	
5800.00	18.74	85.04	5631.68	24.90	14.38	260.47	150.96	101.42	3.05	Goetzel 32C-30-M (p)	
5900.00	18.74	85.04	5726.38	25.58	14.69	259.63	155.03	104.28	3.05	Goetzel 32C-30-M (p)	
6000.00	18.74	85.04	5821.08	26.25	15.00	258.83	159.13	107.18	3.06	Goetzel 32C-30-M (p)	
6100.00	18.74	85.04	5915.78	26.92	15.30	258.07	163.26	110.12	3.07	Goetzel 32C-30-M (p)	
6200.00	18.74	85.04	6010.49	27.59	15.61	257.35	167.41	113.09	3.08	Goetzel 32C-30-M (p)	
6300.00	11.11	83.83	6106.95	28.10	15.91	259.70	170.04	114.45	3.06	Goetzel 32C-30-M (p)	
6400.00	3.15	76.45	6206.10	28.34	15.91	272.81	170.45	113.56	3.00	Goetzel 32C-30-M (p)	
6500.00	4.93	273.20	6306.00	28.42	15.61	84.16	172.60	115.40	3.02	Goetzel 32C-30-M (p)	
6600.00	12.91	269.13	6404.71	28.35	15.03	96.08	178.68	122.18	3.16	Goetzel 32C-30-M (p)	
6700.00	20.91	268.16	6500.31	28.18	14.20	104.28	188.29	133.42	3.43	Goetzel 32C-30-M (p)	
6800.00	28.90	267.70	6590.94	27.95	13.17	266.33	203.98	147.81	3.63	Goetzel 12N-30C-M (p)	
6800.00	28.90	267.70	6590.94	27.95	13.17	111.07	200.63	147.89	3.80		

5D Anti-Collision Report

Primary Well: Goetzel 32N-30B-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
6900.00	36.90	267.44	6674.83	27.71	12.02	264.86	208.10	152.56	3.75	Goetzel 32C-30-M (p)	
7000.00	44.90	267.25	6750.35	27.51	10.85	263.43	212.06	157.13	3.86	Goetzel 12N-30C-M (p)	
7100.00	52.90	267.11	6816.03	27.42	9.80	262.10	215.75	161.26	3.96	Goetzel 12N-30C-M (p)	
7200.00	60.90	267.00	6870.60	27.49	9.08	314.21	835.87	611.45	3.72	Goetzel 2- 29 (s)	
7200.00	60.90	267.00	6870.60	27.49	9.08	260.92	219.02	164.69	4.03	Goetzel 12N-30C-M (p)	
7300.00	68.90	266.91	6912.98	27.77	8.86	302.44	755.98	529.89	3.34	Goetzel 2- 29 (s)	
7300.00	68.90	266.91	6912.98	27.77	8.86	259.89	221.76	167.17	4.06	Goetzel 12N-30C-M (p)	
7400.00	76.90	266.82	6942.36	28.27	9.22	288.94	674.49	446.55	2.96	Goetzel 2- 29 (s)	
7400.00	76.90	266.82	6942.36	28.27	9.22	259.03	223.87	168.41	4.04	Goetzel 12N-30C-M (p)	
7500.00	84.90	266.74	6958.16	29.00	10.12	276.35	594.61	364.44	2.58	Goetzel 2- 29 (s)	
7500.00	84.90	266.74	6958.16	29.00	10.12	258.35	225.24	168.39	3.96	Goetzel 12N-30C-M (p)	
7600.00	90.00	266.69	6961.00	29.92	11.06	270.00	520.23	287.77	2.24	Goetzel 2- 29 (s)	SF(Lo)
7600.00	90.00	266.69	6961.00	29.92	11.06	257.98	225.74	167.06	3.85	Goetzel 12N-30C-M (p)	
7700.00	90.00	266.69	6961.00	31.06	11.55	270.00	455.65	220.40	1.94	Goetzel 2- 29 (s)	SF(Lo)
7700.00	90.00	266.69	6961.00	31.06	11.55	257.98	225.75	164.89	3.71	Goetzel 12N-30C-M (p)	
7800.00	90.00	266.69	6961.00	32.40	12.06	270.00	405.71	166.88	1.70	Goetzel 2- 29 (s)	SF(Lo)
7800.00	90.00	266.69	6961.00	32.40	12.06	257.98	225.77	162.33	3.56	Goetzel 12N-30C-M (p)	
7900.00	90.00	266.69	6961.00	33.92	12.60	270.00	376.27	134.58	1.56	Goetzel 2- 29 (s)	SF(Lo)
7900.00	90.00	266.69	6961.00	33.92	12.60	257.99	225.78	159.41	3.40	Goetzel 12N-30C-M (p)	
8000.00	90.00	266.69	6961.00	35.59	13.15	270.00	372.24	128.27	1.53	Goetzel 2- 29 (s)	SF(Lo)
8000.00	90.00	266.69	6961.00	35.59	13.15	257.99	225.80	156.18	3.24	Goetzel 12N-30C-M (p)	
8100.00	90.00	266.69	6961.00	37.40	13.72	270.00	394.39	150.73	1.62	Goetzel 2- 29 (s)	SF(Lo)
8100.00	90.00	266.69	6961.00	37.40	13.72	257.99	225.81	152.68	3.09	Goetzel 12N-30C-M (p)	
8200.00	90.00	266.69	6961.00	39.32	14.31	270.00	438.77	196.74	1.81	Goetzel 2- 29 (s)	SF(Lo)
8200.00	90.00	266.69	6961.00	39.32	14.31	257.99	225.82	148.95	2.94	Goetzel 12N-30C-M (p)	
8300.00	90.00	266.69	6961.00	41.35	14.91	270.00	499.50	259.34	2.08	Goetzel 2- 29 (s)	SF(Lo)
8300.00	90.00	266.69	6961.00	41.35	14.91	257.99	225.84	145.02	2.79	Goetzel 12N-30C-M (p)	
8400.00	90.00	266.69	6961.00	43.46	15.52	270.00	571.38	332.64	2.39	Goetzel 2- 29 (s)	SF(Lo)

5D Anti-Collision Report

Primary Well: Goetzel 32N-30B-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	266.69	6961.00	43.46	15.52	257.99	225.85	140.92	2.66	Goetzel 12N-30C-M (p)	
8500.00	90.00	266.69	6961.00	45.64	16.14	257.99	225.87	136.67	2.53	Goetzel 12N-30C-M (p)	
8600.00	90.00	266.69	6961.00	47.89	16.77	257.99	225.88	132.29	2.41	Goetzel 12N-30C-M (p)	SF(Lo)
8700.00	90.00	266.69	6961.00	50.19	17.41	257.99	225.90	127.81	2.30	Goetzel 12N-30C-M (p)	SF(Lo)
8800.00	90.00	266.69	6961.00	52.54	18.05	257.99	225.91	123.22	2.20	Goetzel 12N-30C-M (p)	SF(Lo)
8900.00	90.00	266.69	6961.00	54.94	18.71	257.99	225.93	118.56	2.10	Goetzel 12N-30C-M (p)	SF(Lo)
9000.00	90.00	266.69	6961.00	57.36	19.36	257.99	225.94	113.82	2.02	Goetzel 12N-30C-M (p)	SF(Lo)
9100.00	90.00	266.69	6961.00	59.83	20.03	257.99	225.96	109.02	1.93	Goetzel 12N-30C-M (p)	SF(Lo)
9200.00	90.00	266.69	6961.00	62.32	20.69	258.00	225.97	104.16	1.86	Goetzel 12N-30C-M (p)	SF(Lo)
9300.00	90.00	266.69	6961.00	64.83	21.37	270.00	378.27	131.65	1.53	Tollgate Farms 29- 12G6 (s)	SF(Lo)
9300.00	90.00	266.69	6961.00	64.83	21.37	258.00	225.99	99.25	1.78	Goetzel 12N-30C-M (p)	SF(Lo)
9400.00	90.00	266.69	6961.00	67.37	22.04	270.00	300.28	43.26	1.17	Tollgate Farms 29- 12G6 (s)	SF(Med)
9400.00	90.00	266.69	6961.00	67.37	22.04	258.00	226.00	94.30	1.72	Goetzel 12N-30C-M (p)	SF(Lo)
9500.00	90.00	266.69	6961.00	69.93	22.72	270.00	239.27	-30.15	0.89	Tollgate Farms 29- 12G6 (s)	SF(Hi)
9500.00	90.00	266.69	6961.00	69.93	22.72	258.00	226.02	89.31	1.65	Goetzel 12N-30C-M (p)	SF(Lo)
9600.00	90.00	266.69	6961.00	72.50	23.41	270.00	210.55	-70.32	0.75	Tollgate Farms 29- 12G6 (s)	SF(Hi)
9700.00	90.00	266.69	6961.00	75.09	24.09	270.00	226.74	-50.55	0.82	Tollgate Farms 29- 12G6 (s)	SF(Hi)
9700.00	90.00	266.69	6961.00	75.09	24.09	258.00	226.04	79.23	1.54	Goetzel 12N-30C-M (p)	SF(Lo)
9800.00	90.00	266.69	6961.00	77.70	24.78	270.00	280.16	13.54	1.05	Tollgate Farms 29- 12G6 (s)	SF(Med)
9800.00	90.00	266.69	6961.00	77.70	24.78	258.00	226.06	74.14	1.49	Goetzel 12N-30C-M (p)	SF(Med)
9900.00	90.00	266.69	6961.00	80.32	25.47	270.00	354.36	97.16	1.38	Tollgate Farms 29- 12G6 (s)	SF(Med)
9900.00	90.00	266.69	6961.00	80.32	25.47	258.00	226.07	69.03	1.44	Goetzel 12N-30C-M (p)	SF(Med)
10000.00	90.00	266.69	6961.00	82.95	26.16	258.00	226.09	63.90	1.39	Goetzel 12N-30C-M (p)	SF(Med)
10100.00	90.00	266.69	6961.00	85.59	26.86	258.00	226.10	58.74	1.35	Goetzel 12N-30C-M (p)	SF(Med)
10200.00	90.00	266.69	6961.00	88.24	27.56	258.00	226.12	53.57	1.31	Goetzel 12N-30C-M (p)	SF(Med)
10300.00	90.00	266.69	6961.00	90.90	28.26	258.00	226.13	48.38	1.27		SF(Med)

5D Anti-Collision Report

Primary Well: Goetzel 32N-30B-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
10400.00	90.00	266.69	6961.00	93.57	28.96	258.00	226.15	43.17	1.24	Goetzel 12N-30C-M (p)	SF(Med)
10500.00	90.00	266.69	6961.00	96.24	29.66	258.01	226.16	37.95	1.20	Goetzel 12N-30C-M (p)	SF(Med)
10600.00	90.00	266.69	6961.00	98.92	30.36	258.01	226.18	32.71	1.17	Goetzel 12N-30C-M (p)	SF(Med)
10700.00	90.00	266.69	6961.00	101.61	31.07	258.01	226.19	27.46	1.14	Goetzel 12N-30C-M (p)	SF(Med)
10800.00	90.00	266.69	6961.00	104.30	31.78	258.01	226.21	22.20	1.11	Goetzel 12N-30C-M (p)	SF(Med)
10900.00	90.00	266.69	6961.00	107.00	32.48	258.01	226.22	16.93	1.08	Goetzel 12N-30C-M (p)	SF(Med)
11000.00	90.00	266.69	6961.00	109.71	33.19	258.01	226.24	11.65	1.05	Goetzel 12N-30C-M (p)	SF(Med)
11100.00	90.00	266.69	6961.00	112.42	33.90	258.01	226.25	6.37	1.03	Goetzel 12N-30C-M (p)	SF(Med)
11200.00	90.00	266.69	6961.00	115.13	34.61	258.01	226.26	1.07	1.00	Goetzel 12N-30C-M (p)	SF(Med)
11300.00	90.00	266.69	6961.00	117.85	35.32	258.01	226.28	-4.23	0.98	Goetzel 12N-30C-M (p)	SF(Hi)
11400.00	90.00	266.69	6961.00	120.57	36.04	258.01	226.29	-9.55	0.96	Goetzel 12N-30C-M (p)	SF(Hi)
11500.00	90.00	266.69	6961.00	123.29	36.75	258.01	226.31	-14.87	0.94	Goetzel 12N-30C-M (p)	SF(Hi)
11600.00	90.00	266.69	6961.00	126.02	37.46	258.01	226.32	-20.19	0.92	Goetzel 12N-30C-M (p)	SF(Hi)
11700.00	90.00	266.69	6961.00	128.75	38.18	258.02	226.34	-25.52	0.90	Goetzel 12N-30C-M (p)	SF(Hi)
11800.00	90.00	266.69	6961.00	131.48	38.90	258.02	226.35	-30.86	0.88	Goetzel 12N-30C-M (p)	SF(Hi)
11900.00	90.00	266.69	6961.00	134.22	39.61	258.02	226.37	-36.20	0.86	Goetzel 12N-30C-M (p)	SF(Hi)
12000.00	90.00	266.69	6961.00	136.95	40.33	258.02	226.38	-41.55	0.84	Goetzel 12N-30C-M (p)	SF(Hi)
12100.00	90.00	266.69	6961.00	139.70	41.05	258.02	226.40	-46.90	0.83	Goetzel 12N-30C-M (p)	SF(Hi)
12200.00	90.00	266.69	6961.00	142.44	41.76	258.02	226.41	-52.25	0.81	Goetzel 12N-30C-M (p)	SF(Hi)
12300.00	90.00	266.69	6961.00	145.18	42.48	258.02	226.43	-57.61	0.80	Goetzel 12N-30C-M (p)	SF(Hi)
12400.00	90.00	266.69	6961.00	147.93	43.20	258.02	226.44	-62.98	0.78	Goetzel 12N-30C-M (p)	SF(Hi)
12500.00	90.00	266.69	6961.00	150.68	43.92	258.02	226.46	-68.34	0.77	Goetzel 12N-30C-M (p)	SF(Hi)
12600.00	90.00	266.69	6961.00	153.43	44.64	258.02	226.47	-73.71	0.75	Goetzel 12N-30C-M (p)	SF(Hi)
12700.00	90.00	266.69	6961.00	156.18	45.36	258.02	226.48	-79.09	0.74	Goetzel 12N-30C-M (p)	SF(Hi)
12800.00	90.00	266.69	6961.00	158.94	46.08	258.02	226.50	-84.46	0.73		SF(Hi)

5D Anti-Collision Report

Primary Well: Goetzel 32N-30B-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
12900.00	90.00	266.69	6961.00	161.69	46.80	258.02	226.51	-89.84	0.72	Goetzel 12N-30C-M (p)	SF(Hi)
13000.00	90.00	266.69	6961.00	164.45	47.53	258.03	226.53	-95.23	0.70	Goetzel 12N-30C-M (p)	SF(Hi)
13100.00	90.00	266.69	6961.00	167.21	48.25	258.03	226.54	-100.61	0.69	Goetzel 12N-30C-M (p)	SF(Hi)
13200.00	90.00	266.69	6961.00	169.97	48.97	258.03	226.56	-106.00	0.68	Goetzel 12N-30C-M (p)	SF(Hi)
13300.00	90.00	266.69	6961.00	172.73	49.69	258.03	226.57	-111.39	0.67	Goetzel 12N-30C-M (p)	SF(Hi)
13400.00	90.00	266.69	6961.00	175.49	50.42	258.03	226.59	-116.79	0.66	Goetzel 12N-30C-M (p)	SF(Hi)
13500.00	90.00	266.69	6961.00	178.25	51.14	258.03	226.60	-122.18	0.65	Goetzel 12N-30C-M (p)	SF(Hi)
13600.00	90.00	266.69	6961.00	181.01	51.86	270.00	175.85	-142.58	0.55	Tigges 30- 31 (s)	SF(Hi)
13700.00	90.00	266.69	6961.00	183.78	52.59	270.00	113.21	-267.26	0.30	Tigges 30- 31 (s)	SF(Hi)
13800.00	90.00	266.69	6961.00	186.55	53.31	270.00	121.28	-249.77	0.33	Tigges 30- 31 (s)	SF(Hi)
13900.00	90.00	266.69	6961.00	189.31	54.03	270.00	191.32	-122.42	0.61	Tigges 30- 31 (s)	SF(Hi)
14000.00	90.00	266.69	6961.00	192.08	54.76	258.03	226.68	-149.19	0.60	Goetzel 12N-30C-M (p)	SF(Hi)
14100.00	90.00	266.69	6961.00	194.85	55.48	258.03	226.69	-154.59	0.59	Goetzel 12N-30C-M (p)	SF(Hi)
14200.00	90.00	266.69	6961.00	197.62	56.21	258.03	226.70	-160.00	0.59	Goetzel 12N-30C-M (p)	SF(Hi)
14300.00	90.00	266.69	6961.00	200.39	56.93	258.04	226.72	-165.41	0.58	Goetzel 12N-30C-M (p)	SF(Hi)
14400.00	90.00	266.69	6961.00	203.16	57.66	258.04	226.73	-170.82	0.57	Goetzel 12N-30C-M (p)	SF(Hi)
14500.00	90.00	266.69	6961.00	205.93	58.39	258.04	226.75	-176.23	0.56	Goetzel 12N-30C-M (p)	SF(Hi)
14600.00	90.00	266.69	6961.00	208.71	59.11	258.04	226.76	-181.65	0.56	Goetzel 12N-30C-M (p)	SF(Hi)
14700.00	90.00	266.69	6961.00	211.48	59.84	258.04	226.78	-187.06	0.55	Goetzel 12N-30C-M (p)	SF(Hi)
14800.00	90.00	266.69	6961.00	214.25	60.56	258.04	226.79	-192.48	0.54	Goetzel 12N-30C-M (p)	SF(Hi)
14900.00	90.00	266.69	6961.00	217.03	61.29	258.04	226.81	-197.90	0.53	Goetzel 12N-30C-M (p)	SF(Hi)
15000.00	90.00	266.69	6961.00	219.80	62.02	258.04	226.82	-203.32	0.53	Goetzel 12N-30C-M (p)	SF(Hi)
15100.00	90.00	266.69	6961.00	222.58	62.74	258.04	226.84	-208.74	0.52	Goetzel 12N-30C-M (p)	SF(Hi)
15200.00	90.00	266.69	6961.00	225.35	63.47	258.04	226.85	-214.16	0.51	Goetzel 12N-30C-M (p)	SF(Hi)
15300.00	90.00	266.69	6961.00	228.13	64.20	258.04	226.87	-219.58	0.51	Goetzel 12N-30C-M (p)	SF(Hi)
15400.00	90.00	266.69	6961.00	230.91	64.92	258.04	226.88	-225.00	0.50		SF(Hi)

5D Anti-Collision Report

Primary Well: Goetzel 32N-30B-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

15473.86	90.00	266.69	6961.00	232.96	65.46	258.04	226.89	-229.01	0.50	Goetzel 12N-30C-M (p) Goetzel 12N-30C-M (p)	SF(Hi)
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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	156.32	349.60	348.83	454.18	
100.00	72.00	0.00	0.00	100.00	1.09	1.09	156.32	348.48	346.51	176.90	
200.00	172.00	0.00	0.00	200.00	2.69	2.69	156.32	348.48	344.69	91.97	
300.00	272.00	0.00	0.00	300.00	5.73	5.73	156.32	348.48	341.44	49.47	
400.00	372.00	0.00	0.00	400.00	8.77	8.77	156.32	348.48	338.18	33.84	
500.00	472.00	0.00	0.00	500.00	11.80	11.80	156.32	348.48	335.10	26.04	
600.00	572.00	0.00	0.00	600.00	14.84	14.84	156.32	348.48	331.84	20.95	
700.00	672.00	0.00	0.00	700.00	17.88	17.88	156.32	348.48	328.59	17.52	
800.00	772.00	0.00	0.00	800.00	20.91	20.91	156.32	348.48	325.33	15.06	
900.00	872.00	0.00	0.00	900.00	23.95	23.95	156.32	348.48	322.08	13.20	
1000.00	972.00	0.00	0.00	1000.00	26.99	26.99	156.32	348.48	318.82	11.75	
1100.00	1072.00	0.00	0.00	1100.00	30.02	30.02	156.32	348.48	315.57	10.59	
1200.00	1172.00	0.00	0.00	1200.00	33.06	33.06	156.32	348.48	312.31	9.64	
1300.00	1272.00	0.00	0.00	1300.00	36.10	36.10	156.32	348.48	309.06	8.84	
1400.00	1372.00	0.00	0.00	1400.00	39.14	39.14	156.32	348.48	305.80	8.17	
1500.00	1472.00	0.00	0.00	1500.00	42.17	42.17	156.32	348.48	302.55	7.59	
1600.00	1572.00	0.00	0.00	1600.00	45.21	45.21	156.32	348.48	299.29	7.08	
1700.00	1672.00	0.00	0.00	1700.00	48.25	48.25	156.32	348.48	296.04	6.65	
1800.00	1772.00	0.00	0.00	1800.00	51.28	51.28	156.32	348.48	292.78	6.26	
1900.00	1872.00	0.00	0.00	1900.00	54.32	54.32	156.32	348.48	289.53	5.91	
2000.00	1972.00	0.00	0.00	2000.00	57.36	57.36	156.32	348.48	286.27	5.60	
2100.00	2071.98	0.00	0.00	2099.98	60.39	60.39	71.56	347.92	282.45	5.31	
2200.00	2171.84	0.00	0.00	2199.84	63.43	63.43	72.42	346.30	277.55	5.04	
2300.00	2271.45	0.00	0.00	2299.45	66.45	66.45	73.84	343.77	271.74	4.77	
2400.00	2370.70	0.00	0.00	2398.70	69.46	69.46	75.86	340.56	265.27	4.52	
2500.00	2469.47	0.00	0.00	2497.47	72.46	72.46	78.48	337.04	258.64	4.30	
2600.00	2567.62	0.00	0.00	2595.62	75.44	75.44	81.70	333.70	252.05	4.09	
2700.00	2665.06	0.00	0.00	2693.06	78.40	78.40	85.51	331.13	246.07	3.89	
2800.00	2761.64	0.00	0.00	2789.64	81.34	81.34	89.86	330.05	241.99	3.75	
2900.00	2857.27	0.00	0.00	2885.27	84.24	84.24	94.67	331.27	239.59	3.61	
3000.00	2952.04	0.00	0.00	2980.04	87.12	87.12	99.81	335.51	240.79	3.54	
3100.00	3046.75	0.00	0.00	3074.75	90.00	90.00	104.85	342.74	244.40	3.49	
3200.00	3141.45	0.00	0.00	3169.45	92.87	92.87	109.66	352.75	251.36	3.48	
3300.00	3236.15	0.00	0.00	3264.15	95.75	95.75	114.20	365.33	260.35	3.48	
3400.00	3330.85	0.00	0.00	3358.85	98.62	98.62	118.44	380.21	272.30	3.52	
3500.00	3425.55	0.00	0.00	3453.55	101.50	101.50	122.36	397.13	285.65	3.56	
3600.00	3520.25	0.00	0.00	3548.25	104.37	104.37	125.98	415.86	301.19	3.63	
3700.00	3614.95	0.00	0.00	3642.95	107.25	107.25	129.29	436.14	318.44	3.71	
3800.00	3709.65	0.00	0.00	3737.65	110.13	110.13	132.31	457.78	336.65	3.78	
3900.00	3804.36	0.00	0.00	3832.36	113.00	113.00	135.07	480.60	356.33	3.87	
4000.00	3899.06	0.00	0.00	3927.06	115.88	115.88	137.58	504.43	377.23	3.97	
4100.00	3993.76	0.00	0.00	4021.76	118.75	118.75	139.88	529.14	398.69	4.06	
4200.00	4088.46	0.00	0.00	4116.46	121.63	121.63	141.98	554.61	420.82	4.15	
4300.00	4183.16	0.00	0.00	4211.16	124.51	124.51	143.89	580.73	443.78	4.24	
4400.00	4277.86	0.00	0.00	4305.86	127.38	127.38	145.65	607.44	467.44	4.34	
4500.00	4372.56	0.00	0.00	4400.56	130.26	130.26	147.26	634.64	491.72	4.44	
4600.00	4467.26	0.00	0.00	4495.26	133.13	133.13	148.74	662.29	516.42	4.54	
4700.00	4561.97	0.00	0.00	4589.97	136.01	136.01	150.11	690.32	541.09	4.63	
4800.00	4656.67	0.00	0.00	4684.67	138.89	138.89	151.37	718.69	566.18	4.71	

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
4900.00	4751.37	0.00	0.00	4779.37	141.76	141.76	152.54	747.37	591.64	4.80	
5000.00	4846.07	0.00	0.00	4874.07	144.64	144.64	153.62	776.32	617.43	4.89	
5100.00	4940.77	0.00	0.00	4968.77	147.51	147.51	154.62	805.51	643.51	4.97	
5200.00	5035.47	0.00	0.00	5063.47	150.39	150.39	155.56	834.91	669.84	5.06	
5300.00	5130.17	0.00	0.00	5158.17	153.27	153.27	156.43	864.51	696.40	5.14	
5400.00	5224.88	0.00	0.00	5252.88	156.14	156.14	157.25	894.28	723.16	5.23	
5500.00	5319.58	0.00	0.00	5347.58	159.02	159.02	158.02	924.20	750.11	5.31	
5600.00	5414.28	0.00	0.00	5442.28	161.89	161.89	158.73	954.28	777.19	5.39	
5700.00	5508.98	0.00	0.00	5536.98	164.77	164.77	159.41	984.48	804.18	5.46	
5800.00	5603.68	0.00	0.00	5631.68	167.65	167.65	160.04	1014.79	831.23	5.53	
5900.00	5698.38	0.00	0.00	5726.38	170.52	170.52	160.64	1045.22	858.40	5.59	
6000.00	5793.08	0.00	0.00	5821.08	173.40	173.40	161.20	1075.74	885.69	5.66	
6100.00	5887.78	0.00	0.00	5915.78	176.27	176.27	161.74	1106.36	913.09	5.72	
6200.00	5982.49	0.00	0.00	6010.49	179.15	179.15	162.24	1137.05	940.58	5.79	
6300.00	6078.95	0.00	0.00	6106.95	182.08	182.08	164.41	1162.05	962.39	5.82	
6400.00	6178.10	0.00	0.00	6206.10	185.09	185.09	172.21	1174.09	971.24	5.79	
6500.00	6278.00	0.00	0.00	6306.00	188.12	188.12	335.32	1172.90	966.89	5.69	
6600.00	6376.71	0.00	0.00	6404.71	191.12	191.12	338.69	1158.52	949.43	5.54	
6700.00	6472.31	0.00	0.00	6500.31	194.03	194.03	338.35	1131.29	919.27	5.34	
6800.00	6562.94	0.00	0.00	6590.94	196.78	196.78	336.70	1091.87	877.13	5.08	
6900.00	6646.83	0.00	0.00	6674.83	199.33	199.33	333.85	1041.20	824.05	4.79	
7000.00	6722.35	0.00	0.00	6750.35	201.62	201.62	329.51	980.55	761.15	4.47	
7100.00	6788.03	0.00	0.00	6816.03	203.61	203.61	323.16	911.48	689.39	4.10	
7200.00	6842.60	0.00	0.00	6870.60	205.27	205.27	314.21	835.87	611.45	3.72	
7300.00	6884.98	0.00	0.00	6912.98	206.56	206.56	302.44	755.98	529.89	3.34	
7400.00	6914.36	0.00	0.00	6942.36	207.45	207.45	288.94	674.49	446.55	2.96	
7500.00	6930.16	0.00	0.00	6958.16	207.93	207.93	276.35	594.61	364.44	2.58	
7600.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	520.23	287.77	2.24	SF(Lo)
7700.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	455.65	220.40	1.94	SF(Lo)
7800.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	405.71	166.88	1.70	SF(Lo)
7900.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	376.27	134.58	1.56	SF(Lo)
8000.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	372.24	128.27	1.53	SF(Lo)
8100.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	394.39	150.73	1.62	SF(Lo)
8200.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	438.77	196.74	1.81	SF(Lo)
8300.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	499.50	259.34	2.08	SF(Lo)
8400.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	571.38	332.64	2.39	SF(Lo)
8500.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	650.74	413.51	2.74	
8600.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	735.15	499.53	3.12	
8700.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	823.06	588.53	3.51	
8800.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	913.46	679.44	3.90	
8900.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	1005.67	772.49	4.31	
9000.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	1099.25	867.05	4.73	
9100.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	1193.88	962.50	5.16	
9200.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	1289.31	1057.98	5.57	
9300.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	1385.39	1154.20	5.99	
9400.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	1481.99	1251.00	6.42	
9500.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	1579.01	1348.26	6.84	
9600.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	1676.38	1445.88	7.27	
9700.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	1774.04	1543.81	7.71	
9800.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	1871.95	1641.98	8.14	
9900.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	1970.07	1740.36	8.58	
10000.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	2068.37	1838.92	9.01	
10100.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	2166.83	1937.58	9.45	
10200.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	2265.42	2036.37	9.89	
10300.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	2364.13	2135.27	10.33	
10400.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	2462.94	2234.27	10.77	
10500.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	2561.85	2333.35	11.21	
10600.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	2660.83	2432.31	11.64	

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
10700.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	2759.89	2531.34	12.08	
10800.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	2859.02	2630.45	12.51	
10900.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	2958.21	2729.62	12.94	
11000.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	3057.44	2828.84	13.37	
11100.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	3156.73	2928.12	13.81	
11200.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	3256.06	3027.44	14.24	
11300.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	3355.43	3126.81	14.68	
11400.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	3454.83	3226.21	15.11	
11500.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	3554.27	3325.64	15.55	
11600.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	3653.74	3425.11	15.98	
11700.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	3753.24	3524.60	16.42	
11800.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	3852.77	3624.12	16.85	
11900.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	3952.31	3723.66	17.29	
12000.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	4051.88	3823.23	17.72	
12100.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	4151.47	3922.81	18.16	
12200.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	4251.08	4022.41	18.59	
12300.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	4350.71	4122.03	19.03	
12400.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	4450.36	4221.67	19.46	
12500.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	4550.02	4321.32	19.90	
12600.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	4649.69	4420.99	20.33	
12700.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	4749.38	4520.67	20.77	
12800.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	4849.08	4620.36	21.20	
12900.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	4948.80	4720.06	21.63	
13000.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	5048.52	4819.76	22.07	
13100.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	5148.26	4919.47	22.50	
13200.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	5248.00	5019.19	22.94	
13300.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	5347.76	5118.92	23.37	
13400.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	5447.52	5218.65	23.80	
13500.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	5547.29	5318.40	24.24	
13600.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	5647.07	5418.15	24.67	
13700.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	5746.86	5517.91	25.10	
13800.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	5846.66	5617.68	25.53	
13900.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	5946.46	5717.45	25.97	
14000.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	6046.27	5817.23	26.40	
14100.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	6146.08	5917.01	26.83	
14200.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	6245.90	6016.80	27.26	
14300.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	6345.73	6116.60	27.69	
14400.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	6445.56	6216.40	28.13	
14500.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	6545.40	6316.20	28.56	
14600.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	6645.24	6416.01	28.99	
14700.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	6745.09	6515.82	29.42	
14800.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	6844.94	6615.64	29.85	
14900.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	6944.80	6715.46	30.28	
15000.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	7044.65	6815.28	30.71	
15100.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	7144.52	6915.10	31.14	
15200.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	7244.39	7014.93	31.57	
15300.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	7344.26	7114.77	32.00	
15400.00	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	7444.13	7214.60	32.43	
15473.86	6933.00	0.00	0.00	6961.00	208.02	208.02	270.00	7517.90	7288.34	32.75	
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	274.93	6992.69	6991.96	9604.13	
100.00	85.00	0.00	0.00	100.00	1.29	1.29	274.93	6992.67	6990.55	3294.01	
200.00	185.00	0.00	0.00	200.00	3.09	3.09	274.93	6992.67	6988.53	1690.70	
300.00	285.00	0.00	0.00	300.00	6.12	6.12	274.93	6992.67	6985.28	946.80	
400.00	385.00	0.00	0.00	400.00	9.16	9.16	274.93	6992.67	6982.21	668.31	

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
500.00	485.00	0.00	0.00	500.00	12.20	12.20	274.93	6992.67	6978.96	509.93	
600.00	585.00	0.00	0.00	600.00	15.23	15.23	274.93	6992.67	6975.71	412.24	
700.00	685.00	0.00	0.00	700.00	18.27	18.27	274.93	6992.67	6972.46	345.96	
800.00	785.00	0.00	0.00	800.00	21.31	21.31	274.93	6992.67	6969.21	298.05	
900.00	885.00	0.00	0.00	900.00	24.35	24.35	274.93	6992.67	6965.96	261.79	
1000.00	985.00	0.00	0.00	1000.00	27.38	27.38	274.93	6992.67	6962.71	233.39	
1100.00	1085.00	0.00	0.00	1100.00	30.42	30.42	274.93	6992.67	6959.46	210.56	
1200.00	1185.00	0.00	0.00	1200.00	33.46	33.46	274.93	6992.67	6956.21	191.79	
1300.00	1285.00	0.00	0.00	1300.00	36.49	36.49	274.93	6992.67	6952.96	176.09	
1400.00	1385.00	0.00	0.00	1400.00	39.53	39.53	274.93	6992.67	6949.71	162.77	
1500.00	1485.00	0.00	0.00	1500.00	42.57	42.57	274.93	6992.67	6946.46	151.33	
1600.00	1585.00	0.00	0.00	1600.00	45.60	45.60	274.93	6992.67	6943.21	141.38	
1700.00	1685.00	0.00	0.00	1700.00	48.64	48.64	274.93	6992.67	6939.96	132.67	
1800.00	1785.00	0.00	0.00	1800.00	51.68	51.68	274.93	6992.67	6936.71	124.96	
1900.00	1885.00	0.00	0.00	1900.00	54.71	54.71	274.93	6992.67	6933.46	118.10	
2000.00	1985.00	0.00	0.00	2000.00	57.75	57.75	274.93	6992.67	6930.21	111.96	
2100.00	2084.98	0.00	0.00	2099.98	60.79	60.79	189.89	6994.39	6928.68	106.45	
2200.00	2184.84	0.00	0.00	2199.84	63.82	63.82	189.91	6999.55	6930.62	101.55	
2300.00	2284.45	0.00	0.00	2299.45	66.85	66.85	189.92	7008.13	6935.98	97.13	
2400.00	2383.70	0.00	0.00	2398.70	69.86	69.86	189.95	7020.14	6944.78	93.16	
2500.00	2482.47	0.00	0.00	2497.47	72.86	72.86	189.98	7035.55	6957.00	89.57	
2600.00	2580.62	0.00	0.00	2595.62	75.84	75.84	190.02	7054.35	6972.61	86.30	
2700.00	2678.06	0.00	0.00	2693.06	78.80	78.80	190.07	7076.52	6991.60	83.33	
2800.00	2774.64	0.00	0.00	2789.64	81.73	81.73	190.12	7102.02	7013.95	80.64	
2900.00	2870.27	0.00	0.00	2885.27	84.64	84.64	190.19	7130.84	7039.63	78.18	
3000.00	2965.04	0.00	0.00	2980.04	87.51	87.51	190.18	7162.28	7067.96	75.93	
3100.00	3059.75	0.00	0.00	3074.75	90.39	90.39	190.14	7193.95	7096.52	73.84	
3200.00	3154.45	0.00	0.00	3169.45	93.27	93.27	190.09	7225.62	7125.07	71.86	
3300.00	3249.15	0.00	0.00	3264.15	96.14	96.14	190.05	7257.29	7153.63	70.01	
3400.00	3343.85	0.00	0.00	3358.85	99.02	99.02	190.01	7288.97	7182.18	68.25	
3500.00	3438.55	0.00	0.00	3453.55	101.89	101.89	189.96	7320.65	7210.73	66.60	
3600.00	3533.25	0.00	0.00	3548.25	104.77	104.77	189.92	7352.34	7239.28	65.03	
3700.00	3627.95	0.00	0.00	3642.95	107.65	107.65	189.88	7384.03	7267.84	63.55	
3800.00	3722.65	0.00	0.00	3737.65	110.52	110.52	189.83	7415.72	7296.39	62.14	
3900.00	3817.36	0.00	0.00	3832.36	113.40	113.40	189.79	7447.42	7324.95	60.81	
4000.00	3912.06	0.00	0.00	3927.06	116.27	116.27	189.75	7479.12	7353.50	59.54	
4100.00	4006.76	0.00	0.00	4021.76	119.15	119.15	189.71	7510.83	7382.06	58.33	
4200.00	4101.46	0.00	0.00	4116.46	122.03	122.03	189.67	7542.53	7410.61	57.17	
4300.00	4196.16	0.00	0.00	4211.16	124.90	124.90	189.63	7574.25	7439.17	56.07	
4400.00	4290.86	0.00	0.00	4305.86	127.78	127.78	189.59	7605.96	7467.73	55.02	
4500.00	4385.56	0.00	0.00	4400.56	130.65	130.65	189.55	7637.68	7496.28	54.02	
4600.00	4480.26	0.00	0.00	4495.26	133.53	133.53	189.51	7669.40	7524.84	53.05	
4700.00	4574.97	0.00	0.00	4589.97	136.41	136.41	189.47	7701.12	7553.40	52.13	
4800.00	4669.67	0.00	0.00	4684.67	139.28	139.28	189.43	7732.85	7581.97	51.25	
4900.00	4764.37	0.00	0.00	4779.37	142.16	142.16	189.39	7764.58	7610.53	50.40	
5000.00	4859.07	0.00	0.00	4874.07	145.03	145.03	189.35	7796.32	7639.10	49.59	
5100.00	4953.77	0.00	0.00	4968.77	147.91	147.91	189.31	7828.06	7667.67	48.81	
5200.00	5048.47	0.00	0.00	5063.47	150.78	150.78	189.27	7859.80	7696.24	48.05	
5300.00	5143.17	0.00	0.00	5158.17	153.66	153.66	189.24	7891.54	7724.81	47.33	
5400.00	5237.88	0.00	0.00	5252.88	156.54	156.54	189.20	7923.29	7753.39	46.63	
5500.00	5332.58	0.00	0.00	5347.58	159.41	159.41	189.16	7955.04	7781.96	45.96	
5600.00	5427.28	0.00	0.00	5442.28	162.29	162.29	189.13	7986.79	7810.54	45.32	
5700.00	5521.98	0.00	0.00	5536.98	165.16	165.16	189.09	8018.55	7839.12	44.69	
5800.00	5616.68	0.00	0.00	5631.68	168.04	168.04	189.05	8050.30	7867.71	44.09	
5900.00	5711.38	0.00	0.00	5726.38	170.92	170.92	189.02	8082.07	7896.29	43.50	
6000.00	5806.08	0.00	0.00	5821.08	173.79	173.79	188.98	8113.83	7924.88	42.94	
6100.00	5900.78	0.00	0.00	5915.78	176.67	176.67	188.95	8145.60	7953.47	42.40	
6200.00	5995.49	0.00	0.00	6010.49	179.54	179.54	188.91	8177.37	7982.06	41.87	

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
6300.00	6091.95	0.00	0.00	6106.95	182.47	182.47	189.80	8203.09	8004.59	41.33	
6400.00	6191.10	0.00	0.00	6206.10	185.49	185.49	197.01	8215.24	8013.54	40.73	
6500.00	6291.00	0.00	0.00	6306.00	188.52	188.52	0.23	8213.57	8008.69	40.09	
6600.00	6389.71	0.00	0.00	6404.71	191.52	191.52	4.41	8198.10	7990.14	39.42	
6700.00	6485.31	0.00	0.00	6500.31	194.42	194.42	5.67	8169.15	7958.25	38.74	
6800.00	6575.94	0.00	0.00	6590.94	197.17	197.17	6.60	8127.27	7913.64	38.04	
6900.00	6659.83	0.00	0.00	6674.83	199.72	199.72	7.60	8073.28	7857.15	37.35	
7000.00	6735.35	0.00	0.00	6750.35	202.01	202.01	8.89	8008.24	7789.90	36.68	
7100.00	6801.03	0.00	0.00	6816.03	204.01	204.01	10.73	7933.42	7713.17	36.02	
7200.00	6855.60	0.00	0.00	6870.60	205.67	205.67	13.59	7850.27	7628.46	35.39	
7300.00	6897.98	0.00	0.00	6912.98	206.95	206.95	18.53	7760.42	7537.41	34.80	
7400.00	6927.36	0.00	0.00	6942.36	207.84	207.84	28.62	7665.63	7441.79	34.25	
7500.00	6943.16	0.00	0.00	6958.16	208.32	208.32	54.95	7567.73	7343.47	33.75	
7600.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	7468.63	7244.32	33.30	
7700.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	7369.46	7145.17	32.86	
7800.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	7270.32	7045.98	32.41	
7900.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	7171.21	6946.80	31.96	
8000.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	7072.12	6847.66	31.51	
8100.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	6973.05	6748.56	31.06	
8200.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	6874.01	6649.48	30.61	
8300.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	6775.00	6550.37	30.16	
8400.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	6676.02	6451.30	29.71	
8500.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	6577.08	6352.20	29.25	
8600.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	6478.16	6253.07	28.78	
8700.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	6379.28	6153.97	28.31	
8800.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	6280.43	6054.91	27.85	
8900.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	6181.62	5955.88	27.38	
9000.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	6082.84	5856.78	26.91	
9100.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	5984.11	5757.72	26.43	
9200.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	5885.43	5658.69	25.96	
9300.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	5786.78	5559.71	25.48	
9400.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	5688.19	5460.73	25.01	
9500.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	5589.64	5361.75	24.53	
9600.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	5491.15	5262.81	24.05	
9700.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	5392.71	5163.91	23.57	
9800.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	5294.33	5065.07	23.09	
9900.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	5196.01	4966.21	22.61	
10000.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	5097.76	4867.34	22.12	
10100.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	4999.58	4768.51	21.64	
10200.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	4901.47	4669.74	21.15	
10300.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	4803.44	4571.02	20.67	
10400.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	4705.49	4472.36	20.18	
10500.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	4607.63	4373.76	19.70	
10600.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	4509.86	4275.15	19.21	
10700.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	4412.20	4176.61	18.73	
10800.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	4314.64	4078.14	18.24	
10900.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	4217.19	3979.74	17.76	
11000.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	4119.87	3881.44	17.28	
11100.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	4022.68	3783.21	16.80	
11200.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	3925.63	3685.01	16.32	
11300.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	3828.73	3586.92	15.83	
11400.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	3732.00	3488.93	15.35	
11500.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	3635.44	3391.04	14.88	
11600.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	3539.07	3293.23	14.40	
11700.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	3442.91	3195.56	13.92	
11800.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	3346.98	3098.04	13.45	
11900.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	3251.29	3000.70	12.97	
12000.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	3155.87	2903.54	12.51	

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
12100.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	3060.74	2806.59	12.04	
12200.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	2965.93	2709.54	11.57	
12300.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	2871.47	2612.67	11.10	
12400.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	2777.40	2515.98	10.62	
12500.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	2683.76	2419.54	10.16	
12600.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	2590.60	2323.42	9.70	
12700.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	2497.96	2227.67	9.24	
12800.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	2405.92	2132.34	8.79	
12900.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	2314.53	2037.48	8.35	
13000.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	2223.89	1943.18	7.92	
13100.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	2134.08	1849.50	7.50	
13200.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	2045.21	1756.57	7.09	
13300.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	1957.43	1663.85	6.67	
13400.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	1870.86	1571.76	6.25	
13500.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	1785.71	1480.77	5.86	
13600.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	1702.17	1391.10	5.47	
13700.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	1620.49	1303.04	5.10	
13800.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	1540.97	1216.83	4.75	
13900.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	1463.97	1131.53	4.40	
14000.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	1389.90	1048.84	4.08	
14100.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	1319.26	969.41	3.77	
14200.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	1252.62	893.15	3.48	
14300.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	1190.67	820.70	3.22	
14400.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	1134.15	754.38	2.99	
14500.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	1083.94	693.19	2.77	
14600.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	1040.93	640.46	2.60	
14700.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	1006.06	595.86	2.45	SF(Lo)
14800.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	980.19	562.53	2.35	SF(Lo)
14900.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	964.05	539.45	2.27	SF(Lo)
15000.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	958.12	529.81	2.24	SF(Lo)
15100.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	962.61	532.23	2.24	SF(Lo)
15200.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	977.36	547.52	2.27	SF(Lo)
15300.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	1001.92	575.12	2.35	SF(Lo)
15400.00	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	1035.60	612.88	2.45	SF(Lo)
15473.86	6946.00	0.00	0.00	6961.00	208.41	208.41	90.00	1065.83	647.49	2.55	
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	260.48	1537.43	1536.77	2328.03	
100.00	73.00	0.00	0.00	100.00	1.11	1.11	260.48	1537.19	1535.31	818.43	
200.00	173.00	0.00	0.00	200.00	2.72	2.72	260.48	1537.19	1533.47	413.63	
300.00	273.00	0.00	0.00	300.00	5.76	5.76	260.48	1537.19	1530.21	220.29	
400.00	373.00	0.00	0.00	400.00	8.80	8.80	260.48	1537.19	1527.12	152.69	
500.00	473.00	0.00	0.00	500.00	11.83	11.83	260.48	1537.19	1523.86	115.33	
600.00	573.00	0.00	0.00	600.00	14.87	14.87	260.48	1537.19	1520.60	92.65	
700.00	673.00	0.00	0.00	700.00	17.91	17.91	260.48	1537.19	1517.34	77.43	
800.00	773.00	0.00	0.00	800.00	20.94	20.94	260.48	1537.19	1514.08	66.51	
900.00	873.00	0.00	0.00	900.00	23.98	23.98	260.48	1537.19	1510.82	58.28	
1000.00	973.00	0.00	0.00	1000.00	27.02	27.02	260.48	1537.19	1507.55	51.87	
1100.00	1073.00	0.00	0.00	1100.00	30.05	30.05	260.48	1537.19	1504.29	46.73	
1200.00	1173.00	0.00	0.00	1200.00	33.09	33.09	260.48	1537.19	1501.03	42.51	
1300.00	1273.00	0.00	0.00	1300.00	36.13	36.13	260.48	1537.19	1497.77	38.99	
1400.00	1373.00	0.00	0.00	1400.00	39.17	39.17	260.48	1537.19	1494.51	36.01	
1500.00	1473.00	0.00	0.00	1500.00	42.20	42.20	260.48	1537.19	1491.25	33.46	
1600.00	1573.00	0.00	0.00	1600.00	45.24	45.24	260.48	1537.19	1487.98	31.24	
1700.00	1673.00	0.00	0.00	1700.00	48.28	48.28	260.48	1537.19	1484.72	29.30	
1800.00	1773.00	0.00	0.00	1800.00	51.31	51.31	260.48	1537.19	1481.46	27.58	

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
1900.00	1873.00	0.00	0.00	1900.00	54.35	54.35	260.48	1537.19	1478.20	26.06	
2000.00	1973.00	0.00	0.00	2000.00	57.39	57.39	260.48	1537.19	1474.94	24.69	
2100.00	2072.98	0.00	0.00	2099.98	60.42	60.42	175.45	1538.93	1473.44	23.50	
2200.00	2172.84	0.00	0.00	2199.84	63.46	63.46	175.46	1544.15	1475.42	22.47	
2300.00	2272.45	0.00	0.00	2299.45	66.48	66.48	175.47	1552.84	1480.88	21.58	
2400.00	2371.70	0.00	0.00	2398.70	69.49	69.49	175.49	1564.98	1489.80	20.82	
2500.00	2470.47	0.00	0.00	2497.47	72.49	72.49	175.51	1580.58	1502.19	20.16	
2600.00	2568.62	0.00	0.00	2595.62	75.48	75.48	175.53	1599.60	1518.02	19.61	
2700.00	2666.06	0.00	0.00	2693.06	78.43	78.43	175.56	1622.03	1537.27	19.14	
2800.00	2762.64	0.00	0.00	2789.64	81.37	81.37	175.58	1647.84	1559.92	18.74	
2900.00	2858.27	0.00	0.00	2885.27	84.27	84.27	175.62	1677.00	1585.95	18.42	
3000.00	2953.04	0.00	0.00	2980.04	87.15	87.15	175.68	1708.81	1614.65	18.15	
3100.00	3047.75	0.00	0.00	3074.75	90.03	90.03	175.76	1740.85	1643.58	17.90	
3200.00	3142.45	0.00	0.00	3169.45	92.90	92.90	175.83	1772.89	1672.52	17.66	
3300.00	3237.15	0.00	0.00	3264.15	95.78	95.78	175.91	1804.94	1701.44	17.44	
3400.00	3331.85	0.00	0.00	3358.85	98.65	98.65	175.98	1836.99	1730.37	17.23	
3500.00	3426.55	0.00	0.00	3453.55	101.53	101.53	176.05	1869.03	1759.30	17.03	
3600.00	3521.25	0.00	0.00	3548.25	104.41	104.41	176.12	1901.09	1788.22	16.84	
3700.00	3615.95	0.00	0.00	3642.95	107.28	107.28	176.18	1933.14	1817.15	16.67	
3800.00	3710.65	0.00	0.00	3737.65	110.16	110.16	176.24	1965.20	1846.07	16.50	
3900.00	3805.36	0.00	0.00	3832.36	113.03	113.03	176.30	1997.26	1875.00	16.34	
4000.00	3900.06	0.00	0.00	3927.06	115.91	115.91	176.36	2029.32	1903.92	16.18	
4100.00	3994.76	0.00	0.00	4021.76	118.79	118.79	176.42	2061.38	1932.84	16.04	
4200.00	4089.46	0.00	0.00	4116.46	121.66	121.66	176.47	2093.44	1961.77	15.90	
4300.00	4184.16	0.00	0.00	4211.16	124.54	124.54	176.53	2125.51	1990.68	15.76	
4400.00	4278.86	0.00	0.00	4305.86	127.41	127.41	176.58	2157.58	2019.60	15.64	
4500.00	4373.56	0.00	0.00	4400.56	130.29	130.29	176.63	2189.65	2048.52	15.52	
4600.00	4468.26	0.00	0.00	4495.26	133.16	133.16	176.68	2221.72	2077.44	15.40	
4700.00	4562.97	0.00	0.00	4589.97	136.04	136.04	176.72	2253.79	2106.36	15.29	
4800.00	4657.67	0.00	0.00	4684.67	138.92	138.92	176.77	2285.86	2135.28	15.18	
4900.00	4752.37	0.00	0.00	4779.37	141.79	141.79	176.82	2317.94	2164.19	15.08	
5000.00	4847.07	0.00	0.00	4874.07	144.67	144.67	176.86	2350.01	2193.11	14.98	
5100.00	4941.77	0.00	0.00	4968.77	147.54	147.54	176.90	2382.09	2222.03	14.88	
5200.00	5036.47	0.00	0.00	5063.47	150.42	150.42	176.94	2414.17	2250.95	14.79	
5300.00	5131.17	0.00	0.00	5158.17	153.30	153.30	176.98	2446.25	2279.87	14.70	
5400.00	5225.88	0.00	0.00	5252.88	156.17	156.17	177.02	2478.33	2308.80	14.62	
5500.00	5320.58	0.00	0.00	5347.58	159.05	159.05	177.06	2510.41	2337.72	14.54	
5600.00	5415.28	0.00	0.00	5442.28	161.92	161.92	177.10	2542.49	2366.64	14.46	
5700.00	5509.98	0.00	0.00	5536.98	164.80	164.80	177.13	2574.57	2395.56	14.38	
5800.00	5604.68	0.00	0.00	5631.68	167.68	167.68	177.17	2606.66	2424.48	14.31	
5900.00	5699.38	0.00	0.00	5726.38	170.55	170.55	177.20	2638.74	2453.41	14.24	
6000.00	5794.08	0.00	0.00	5821.08	173.43	173.43	177.24	2670.83	2482.33	14.17	
6100.00	5888.78	0.00	0.00	5915.78	176.30	176.30	177.27	2702.91	2511.25	14.10	
6200.00	5983.49	0.00	0.00	6010.49	179.18	179.18	177.30	2735.00	2540.18	14.04	
6300.00	6079.95	0.00	0.00	6106.95	182.11	182.11	178.64	2761.02	2563.01	13.94	
6400.00	6179.10	0.00	0.00	6206.10	185.12	185.12	186.06	2773.41	2572.20	13.78	
6500.00	6279.00	0.00	0.00	6306.00	188.15	188.15	349.24	2771.91	2567.53	13.56	
6600.00	6377.71	0.00	0.00	6404.71	191.15	191.15	353.13	2756.57	2549.09	13.29	
6700.00	6473.31	0.00	0.00	6500.31	194.06	194.06	353.81	2727.67	2517.25	12.96	
6800.00	6563.94	0.00	0.00	6590.94	196.81	196.81	353.81	2685.79	2472.60	12.60	
6900.00	6647.83	0.00	0.00	6674.83	199.36	199.36	353.43	2631.75	2416.02	12.20	
7000.00	6723.35	0.00	0.00	6750.35	201.65	201.65	352.66	2566.60	2348.61	11.77	
7100.00	6789.03	0.00	0.00	6816.03	203.64	203.64	351.38	2491.61	2271.66	11.33	
7200.00	6843.60	0.00	0.00	6870.60	205.30	205.30	349.21	2408.26	2186.69	10.87	
7300.00	6885.98	0.00	0.00	6912.98	206.59	206.59	345.28	2318.17	2095.34	10.40	
7400.00	6915.36	0.00	0.00	6942.36	207.48	207.48	336.80	2223.10	1999.39	9.94	
7500.00	6931.16	0.00	0.00	6958.16	207.96	207.96	311.58	2124.92	1900.72	9.48	
7600.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	2025.52	1801.21	9.03	

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
7700.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	1926.08	1701.73	8.58	
7800.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	1826.71	1602.28	8.14	
7900.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	1727.42	1502.84	7.69	
8000.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	1628.20	1403.51	7.25	
8100.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	1529.09	1304.29	6.80	
8200.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	1430.11	1205.21	6.36	
8300.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	1331.27	1106.15	5.91	
8400.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	1232.63	1007.24	5.47	
8500.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	1134.22	908.59	5.03	
8600.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	1036.11	810.12	4.58	
8700.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	938.41	711.27	4.13	
8800.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	841.24	612.67	3.68	
8900.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	744.83	514.61	3.24	
9000.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	649.50	417.22	2.80	
9100.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	555.81	320.90	2.37	SF(Lo)
9200.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	464.77	224.56	1.93	SF(Lo)
9300.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	378.27	131.65	1.53	SF(Lo)
9400.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	300.28	43.26	1.17	SF(Med)
9500.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	239.27	-30.15	0.89	SF(Hi)
9600.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	210.55	-70.32	0.75	SF(Hi)
9700.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	226.74	-50.55	0.82	SF(Hi)
9800.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	280.16	13.54	1.05	SF(Med)
9900.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	354.36	97.16	1.38	SF(Med)
10000.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	438.92	189.55	1.76	SF(Lo)
10100.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	528.90	283.87	2.16	SF(Lo)
10200.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	621.94	380.86	2.58	
10300.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	716.86	478.51	3.01	
10400.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	813.00	576.34	3.44	
10500.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	909.98	674.74	3.87	
10600.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	1007.54	773.59	4.31	
10700.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	1105.54	872.71	4.75	
10800.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	1203.87	971.99	5.19	
10900.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	1302.45	1071.43	5.64	
11000.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	1401.23	1170.94	6.08	
11100.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	1500.18	1270.33	6.53	
11200.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	1599.26	1369.64	6.97	
11300.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	1698.44	1469.04	7.40	
11400.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	1797.71	1568.52	7.84	
11500.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	1897.07	1668.06	8.28	
11600.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	1996.48	1767.65	8.72	
11700.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	2095.95	1867.28	9.17	
11800.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	2195.47	1966.94	9.61	
11900.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	2295.03	2066.62	10.05	
12000.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	2394.63	2166.32	10.49	
12100.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	2494.26	2266.06	10.93	
12200.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	2593.92	2365.81	11.37	
12300.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	2693.60	2465.55	11.81	
12400.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	2793.31	2565.31	12.25	
12500.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	2893.04	2665.08	12.69	
12600.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	2992.78	2764.87	13.13	
12700.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	3092.54	2864.66	13.57	
12800.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	3192.32	2964.47	14.01	
12900.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	3292.11	3064.29	14.45	
13000.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	3391.91	3164.12	14.89	
13100.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	3491.73	3263.96	15.33	
13200.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	3591.55	3363.80	15.77	
13300.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	3691.38	3463.65	16.21	
13400.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	3791.22	3563.51	16.65	

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
13500.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	3891.08	3663.37	17.09	
13600.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	3990.93	3763.24	17.53	
13700.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	4090.80	3863.11	17.97	
13800.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	4190.67	3962.98	18.41	
13900.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	4290.55	4062.86	18.84	
14000.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	4390.43	4162.74	19.28	
14100.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	4490.32	4262.63	19.72	
14200.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	4590.21	4362.51	20.16	
14300.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	4690.11	4462.41	20.60	
14400.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	4790.01	4562.30	21.04	
14500.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	4889.92	4662.19	21.47	
14600.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	4989.82	4762.09	21.91	
14700.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	5089.74	4861.99	22.35	
14800.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	5189.65	4961.89	22.79	
14900.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	5289.57	5061.80	23.22	
15000.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	5389.50	5161.70	23.66	
15100.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	5489.42	5261.61	24.10	
15200.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	5589.35	5361.51	24.53	
15300.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	5689.28	5461.42	24.97	
15400.00	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	5789.21	5561.33	25.40	
15473.86	6934.00	0.00	0.00	6961.00	208.05	208.05	270.00	5863.02	5635.12	25.73	
Secondary Well: Tigges 30-31 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	17.00	0.00	0.00	266.06	5654.49	5653.76	7766.12	
100.00	83.00	0.00	0.00	100.00	1.26	1.26	266.06	5654.46	5652.37	2699.74	
200.00	183.00	0.00	0.00	200.00	3.03	3.03	266.06	5654.46	5650.38	1385.92	
300.00	283.00	0.00	0.00	300.00	6.06	6.06	266.06	5654.46	5647.13	771.00	
400.00	383.00	0.00	0.00	400.00	9.10	9.10	266.06	5654.46	5644.05	542.86	
500.00	483.00	0.00	0.00	500.00	12.14	12.14	266.06	5654.46	5640.79	413.64	
600.00	583.00	0.00	0.00	600.00	15.17	15.17	266.06	5654.46	5637.54	334.11	
700.00	683.00	0.00	0.00	700.00	18.21	18.21	266.06	5654.46	5634.28	280.23	
800.00	783.00	0.00	0.00	800.00	21.25	21.25	266.06	5654.46	5631.03	241.32	
900.00	883.00	0.00	0.00	900.00	24.28	24.28	266.06	5654.46	5627.78	211.89	
1000.00	983.00	0.00	0.00	1000.00	27.32	27.32	266.06	5654.46	5624.52	188.86	
1100.00	1083.00	0.00	0.00	1100.00	30.36	30.36	266.06	5654.46	5621.27	170.35	
1200.00	1183.00	0.00	0.00	1200.00	33.40	33.40	266.06	5654.46	5618.02	155.14	
1300.00	1283.00	0.00	0.00	1300.00	36.43	36.43	266.06	5654.46	5614.76	142.42	
1400.00	1383.00	0.00	0.00	1400.00	39.47	39.47	266.06	5654.46	5611.51	131.64	
1500.00	1483.00	0.00	0.00	1500.00	42.51	42.51	266.06	5654.46	5608.25	122.37	
1600.00	1583.00	0.00	0.00	1600.00	45.54	45.54	266.06	5654.46	5605.00	114.32	
1700.00	1683.00	0.00	0.00	1700.00	48.58	48.58	266.06	5654.46	5601.75	107.26	
1800.00	1783.00	0.00	0.00	1800.00	51.62	51.62	266.06	5654.46	5598.49	101.02	
1900.00	1883.00	0.00	0.00	1900.00	54.65	54.65	266.06	5654.46	5595.24	95.47	
2000.00	1983.00	0.00	0.00	2000.00	57.69	57.69	266.06	5654.46	5591.98	90.50	
2100.00	2082.98	0.00	0.00	2099.98	60.73	60.73	181.03	5656.21	5590.48	86.05	
2200.00	2182.84	0.00	0.00	2199.84	63.76	63.76	181.03	5661.44	5592.49	82.10	
2300.00	2282.45	0.00	0.00	2299.45	66.78	66.78	181.03	5670.15	5597.98	78.56	
2400.00	2381.70	0.00	0.00	2398.70	69.80	69.80	181.03	5682.34	5606.96	75.38	
2500.00	2480.47	0.00	0.00	2497.47	72.80	72.80	181.03	5697.98	5619.40	72.51	
2600.00	2578.62	0.00	0.00	2595.62	75.78	75.78	181.04	5717.06	5635.28	69.91	
2700.00	2676.06	0.00	0.00	2693.06	78.74	78.74	181.04	5739.55	5654.60	67.56	
2800.00	2772.64	0.00	0.00	2789.64	81.67	81.67	181.05	5765.42	5677.32	65.44	
2900.00	2868.27	0.00	0.00	2885.27	84.57	84.57	181.05	5794.65	5703.43	63.52	
3000.00	2963.04	0.00	0.00	2980.04	87.45	87.45	181.05	5826.54	5732.21	61.77	
3100.00	3057.75	0.00	0.00	3074.75	90.33	90.33	181.05	5858.66	5761.23	60.13	
3200.00	3152.45	0.00	0.00	3169.45	93.21	93.21	181.04	5890.77	5790.24	58.59	

5D Anti-Collision Report

Secondary Well: Tigges 30-31 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
3300.00	3247.15	0.00	0.00	3264.15	96.08	96.08	181.04	5922.89	5819.24	57.15	
3400.00	3341.85	0.00	0.00	3358.85	98.96	98.96	181.03	5955.00	5848.25	55.78	
3500.00	3436.55	0.00	0.00	3453.55	101.83	101.83	181.02	5987.12	5877.24	54.49	
3600.00	3531.25	0.00	0.00	3548.25	104.71	104.71	181.02	6019.23	5906.24	53.27	
3700.00	3625.95	0.00	0.00	3642.95	107.58	107.58	181.01	6051.35	5935.23	52.11	
3800.00	3720.65	0.00	0.00	3737.65	110.46	110.46	181.01	6083.46	5964.22	51.02	
3900.00	3815.36	0.00	0.00	3832.36	113.34	113.34	181.00	6115.58	5993.20	49.97	
4000.00	3910.06	0.00	0.00	3927.06	116.21	116.21	181.00	6147.69	6022.19	48.98	
4100.00	4004.76	0.00	0.00	4021.76	119.09	119.09	180.99	6179.81	6051.17	48.04	
4200.00	4099.46	0.00	0.00	4116.46	121.96	121.96	180.99	6211.93	6080.15	47.14	
4300.00	4194.16	0.00	0.00	4211.16	124.84	124.84	180.98	6244.04	6109.12	46.28	
4400.00	4288.86	0.00	0.00	4305.86	127.72	127.72	180.98	6276.16	6138.09	45.46	
4500.00	4383.56	0.00	0.00	4400.56	130.59	130.59	180.97	6308.27	6167.06	44.67	
4600.00	4478.26	0.00	0.00	4495.26	133.47	133.47	180.97	6340.39	6196.03	43.92	
4700.00	4572.97	0.00	0.00	4589.97	136.34	136.34	180.96	6372.50	6224.99	43.20	
4800.00	4667.67	0.00	0.00	4684.67	139.22	139.22	180.96	6404.62	6253.96	42.51	
4900.00	4762.37	0.00	0.00	4779.37	142.10	142.10	180.95	6436.73	6282.92	41.85	
5000.00	4857.07	0.00	0.00	4874.07	144.97	144.97	180.95	6468.85	6311.89	41.21	
5100.00	4951.77	0.00	0.00	4968.77	147.85	147.85	180.94	6500.96	6340.85	40.60	
5200.00	5046.47	0.00	0.00	5063.47	150.72	150.72	180.94	6533.08	6369.81	40.01	
5300.00	5141.17	0.00	0.00	5158.17	153.60	153.60	180.93	6565.20	6398.77	39.45	
5400.00	5235.88	0.00	0.00	5252.88	156.48	156.48	180.93	6597.31	6427.73	38.90	
5500.00	5330.58	0.00	0.00	5347.58	159.35	159.35	180.92	6629.43	6456.69	38.38	
5600.00	5425.28	0.00	0.00	5442.28	162.23	162.23	180.92	6661.54	6485.65	37.87	
5700.00	5519.98	0.00	0.00	5536.98	165.10	165.10	180.92	6693.66	6514.60	37.38	
5800.00	5614.68	0.00	0.00	5631.68	167.98	167.98	180.91	6725.78	6543.56	36.91	
5900.00	5709.38	0.00	0.00	5726.38	170.86	170.86	180.91	6757.89	6572.52	36.46	
6000.00	5804.08	0.00	0.00	5821.08	173.73	173.73	180.90	6790.01	6601.47	36.01	
6100.00	5898.78	0.00	0.00	5915.78	176.61	176.61	180.90	6822.12	6630.43	35.59	
6200.00	5993.49	0.00	0.00	6010.49	179.48	179.48	180.89	6854.24	6659.38	35.18	
6300.00	6089.95	0.00	0.00	6106.95	182.41	182.41	182.08	6880.27	6682.23	34.74	
6400.00	6189.10	0.00	0.00	6206.10	185.42	185.42	189.43	6892.63	6691.40	34.25	
6500.00	6289.00	0.00	0.00	6306.00	188.46	188.46	352.64	6891.08	6686.67	33.71	
6600.00	6387.71	0.00	0.00	6404.71	191.46	191.46	356.63	6875.63	6668.15	33.14	
6700.00	6483.31	0.00	0.00	6500.31	194.36	194.36	357.52	6846.60	6636.18	32.54	
6800.00	6573.94	0.00	0.00	6590.94	197.11	197.11	357.86	6804.55	6591.39	31.92	
6900.00	6657.83	0.00	0.00	6674.83	199.66	199.66	357.97	6750.30	6534.63	31.30	
7000.00	6733.35	0.00	0.00	6750.35	201.95	201.95	357.95	6684.90	6467.01	30.68	
7100.00	6799.03	0.00	0.00	6816.03	203.95	203.95	357.80	6609.62	6389.82	30.07	
7200.00	6853.60	0.00	0.00	6870.60	205.60	205.60	357.47	6525.94	6304.56	29.48	
7300.00	6895.98	0.00	0.00	6912.98	206.89	206.89	356.80	6435.47	6212.89	28.91	
7400.00	6925.36	0.00	0.00	6942.36	207.78	207.78	355.23	6339.99	6116.58	28.38	
7500.00	6941.16	0.00	0.00	6958.16	208.26	208.26	348.67	6241.35	6017.51	27.88	
7600.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	6141.45	5917.57	27.43	
7700.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	6041.46	5817.58	26.98	
7800.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	5941.48	5717.57	26.54	
7900.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	5841.49	5617.59	26.09	
8000.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	5741.51	5517.63	25.65	
8100.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	5641.53	5417.69	25.20	
8200.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	5541.54	5317.68	24.75	
8300.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	5441.56	5217.69	24.31	
8400.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	5341.58	5117.71	23.86	
8500.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	5241.60	5017.74	23.41	
8600.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	5141.62	4917.78	22.97	
8700.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	5041.64	4817.75	22.52	
8800.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	4941.67	4717.75	22.07	
8900.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	4841.69	4617.76	21.62	
9000.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	4741.71	4517.77	21.17	

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
9100.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	4641.74	4417.80	20.73	
9200.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	4541.77	4317.84	20.28	
9300.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	4441.79	4217.86	19.84	
9400.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	4341.82	4117.86	19.39	
9500.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	4241.85	4017.86	18.94	
9600.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	4141.88	3917.87	18.49	
9700.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	4041.92	3817.88	18.04	
9800.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	3941.95	3717.90	17.59	
9900.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	3841.99	3617.92	17.15	
10000.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	3742.03	3517.93	16.70	
10100.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	3642.07	3417.94	16.25	
10200.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	3542.11	3317.93	15.80	
10300.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	3442.16	3217.91	15.35	
10400.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	3342.21	3117.89	14.90	
10500.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	3242.26	3017.87	14.45	
10600.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	3142.31	2917.85	14.00	
10700.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	3042.37	2817.83	13.55	
10800.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	2942.43	2717.81	13.10	
10900.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	2842.50	2617.77	12.65	
11000.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	2742.57	2517.72	12.20	
11100.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	2642.65	2417.67	11.75	
11200.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	2542.73	2317.61	11.29	
11300.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	2442.82	2217.55	10.84	
11400.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	2342.92	2117.49	10.39	
11500.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	2243.03	2017.42	9.94	
11600.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	2143.14	1917.31	9.49	
11700.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	2043.27	1817.19	9.04	
11800.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	1943.41	1717.07	8.59	
11900.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	1843.57	1616.94	8.13	
12000.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	1743.74	1516.78	7.68	
12100.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	1643.94	1416.57	7.23	
12200.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	1544.16	1316.34	6.78	
12300.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	1444.41	1216.09	6.33	
12400.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	1344.70	1115.73	5.87	
12500.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	1245.03	1015.23	5.42	
12600.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	1145.42	914.65	4.96	
12700.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	1045.89	813.99	4.51	
12800.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	946.46	713.18	4.06	
12900.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	847.16	611.95	3.60	
13000.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	748.04	510.40	3.15	
13100.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	649.20	408.49	2.70	
13200.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	550.77	305.72	2.25	SF(Lo)
13300.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	453.04	200.64	1.79	SF(Lo)
13400.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	356.56	93.07	1.35	SF(Med)
13500.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	262.74	-19.41	0.93	SF(Hi)
13600.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	175.85	-142.58	0.55	SF(Hi)
13700.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	113.21	-267.26	0.30	SF(Hi)
13800.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	121.28	-249.77	0.33	SF(Hi)
13900.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	191.32	-122.42	0.61	SF(Hi)
14000.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	280.17	-2.31	0.99	SF(Hi)
14100.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	374.68	109.31	1.41	SF(Med)
14200.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	471.47	215.60	1.84	SF(Lo)
14300.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	569.36	320.21	2.29	SF(Lo)
14400.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	667.88	423.70	2.74	
14500.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	766.79	525.83	3.18	
14600.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	865.94	627.06	3.63	
14700.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	965.27	728.09	4.07	
14800.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	1064.72	828.94	4.52	

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
14900.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	1164.27	929.52	4.96	
15000.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	1263.89	1030.00	5.40	
15100.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	1363.57	1130.40	5.85	
15200.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	1463.29	1230.71	6.29	
15300.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	1563.04	1330.97	6.74	
15400.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	1662.83	1431.21	7.18	
15473.86	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	1736.54	1505.21	7.51	

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	262.73	7075.06	7074.33	9717.13	
100.00	83.00	0.00	0.00	100.00	1.26	1.26	262.73	7075.04	7072.95	3375.28	
200.00	183.00	0.00	0.00	200.00	3.03	3.03	262.73	7075.04	7070.96	1732.35	
300.00	283.00	0.00	0.00	300.00	6.06	6.06	262.73	7075.04	7067.70	963.64	
400.00	383.00	0.00	0.00	400.00	9.10	9.10	262.73	7075.04	7064.61	678.46	
500.00	483.00	0.00	0.00	500.00	12.14	12.14	262.73	7075.04	7061.36	516.95	
600.00	583.00	0.00	0.00	600.00	15.17	15.17	262.73	7075.04	7058.10	417.55	
700.00	683.00	0.00	0.00	700.00	18.21	18.21	262.73	7075.04	7054.84	350.22	
800.00	783.00	0.00	0.00	800.00	21.25	21.25	262.73	7075.04	7051.58	301.58	
900.00	883.00	0.00	0.00	900.00	24.28	24.28	262.73	7075.04	7048.32	264.81	
1000.00	983.00	0.00	0.00	1000.00	27.32	27.32	262.73	7075.04	7045.07	236.02	
1100.00	1083.00	0.00	0.00	1100.00	30.36	30.36	262.73	7075.04	7041.81	212.89	
1200.00	1183.00	0.00	0.00	1200.00	33.40	33.40	262.73	7075.04	7038.55	193.88	
1300.00	1283.00	0.00	0.00	1300.00	36.43	36.43	262.73	7075.04	7035.29	177.99	
1400.00	1383.00	0.00	0.00	1400.00	39.47	39.47	262.73	7075.04	7032.03	164.51	
1500.00	1483.00	0.00	0.00	1500.00	42.51	42.51	262.73	7075.04	7028.78	152.92	
1600.00	1583.00	0.00	0.00	1600.00	45.54	45.54	262.73	7075.04	7025.52	142.86	
1700.00	1683.00	0.00	0.00	1700.00	48.58	48.58	262.73	7075.04	7022.26	134.04	
1800.00	1783.00	0.00	0.00	1800.00	51.62	51.62	262.73	7075.04	7019.00	126.25	
1900.00	1883.00	0.00	0.00	1900.00	54.65	54.65	262.73	7075.04	7015.75	119.31	
2000.00	1983.00	0.00	0.00	2000.00	57.69	57.69	262.73	7075.04	7012.49	113.10	
2100.00	2082.98	0.00	0.00	2099.98	60.73	60.73	177.69	7076.79	7010.99	107.56	
2200.00	2182.84	0.00	0.00	2199.84	63.76	63.76	177.69	7082.02	7013.00	102.61	
2300.00	2282.45	0.00	0.00	2299.45	66.78	66.78	177.68	7090.72	7018.46	98.13	
2400.00	2381.70	0.00	0.00	2398.70	69.80	69.80	177.68	7102.90	7027.42	94.11	
2500.00	2480.47	0.00	0.00	2497.47	72.80	72.80	177.67	7118.53	7039.85	90.47	
2600.00	2578.62	0.00	0.00	2595.62	75.78	75.78	177.66	7137.59	7055.73	87.18	
2700.00	2676.06	0.00	0.00	2693.06	78.74	78.74	177.65	7160.07	7075.03	84.20	
2800.00	2772.64	0.00	0.00	2789.64	81.67	81.67	177.64	7185.93	7097.74	81.48	
2900.00	2868.27	0.00	0.00	2885.27	84.57	84.57	177.62	7215.14	7123.83	79.02	
3000.00	2963.04	0.00	0.00	2980.04	87.45	87.45	177.62	7247.01	7152.59	76.75	
3100.00	3057.75	0.00	0.00	3074.75	90.33	90.33	177.63	7279.11	7181.59	74.64	
3200.00	3152.45	0.00	0.00	3169.45	93.21	93.21	177.64	7311.20	7210.57	72.65	
3300.00	3247.15	0.00	0.00	3264.15	96.08	96.08	177.65	7343.30	7239.56	70.78	
3400.00	3341.85	0.00	0.00	3358.85	98.96	98.96	177.66	7375.40	7268.53	69.02	
3500.00	3436.55	0.00	0.00	3453.55	101.83	101.83	177.67	7407.49	7297.51	67.35	
3600.00	3531.25	0.00	0.00	3548.25	104.71	104.71	177.68	7439.59	7326.48	65.78	
3700.00	3625.95	0.00	0.00	3642.95	107.58	107.58	177.69	7471.68	7355.45	64.28	
3800.00	3720.65	0.00	0.00	3737.65	110.46	110.46	177.70	7503.78	7384.42	62.87	
3900.00	3815.36	0.00	0.00	3832.36	113.34	113.34	177.71	7535.88	7413.38	61.52	
4000.00	3910.06	0.00	0.00	3927.06	116.21	116.21	177.72	7567.97	7442.34	60.24	
4100.00	4004.76	0.00	0.00	4021.76	119.09	119.09	177.73	7600.07	7471.30	59.02	
4200.00	4099.46	0.00	0.00	4116.46	121.96	121.96	177.74	7632.17	7500.26	57.86	
4300.00	4194.16	0.00	0.00	4211.16	124.84	124.84	177.75	7664.26	7529.21	56.75	
4400.00	4288.86	0.00	0.00	4305.86	127.72	127.72	177.76	7696.36	7558.16	55.69	
4500.00	4383.56	0.00	0.00	4400.56	130.59	130.59	177.77	7728.46	7587.10	54.67	
4600.00	4478.26	0.00	0.00	4495.26	133.47	133.47	177.78	7760.56	7616.05	53.70	

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
4700.00	4572.97	0.00	0.00	4589.97	136.34	136.34	177.79	7792.66	7644.99	52.77	
4800.00	4667.67	0.00	0.00	4684.67	139.22	139.22	177.80	7824.75	7673.94	51.88	
4900.00	4762.37	0.00	0.00	4779.37	142.10	142.10	177.81	7856.85	7702.88	51.03	
5000.00	4857.07	0.00	0.00	4874.07	144.97	144.97	177.81	7888.95	7731.82	50.21	
5100.00	4951.77	0.00	0.00	4968.77	147.85	147.85	177.82	7921.05	7760.76	49.42	
5200.00	5046.47	0.00	0.00	5063.47	150.72	150.72	177.83	7953.15	7789.70	48.66	
5300.00	5141.17	0.00	0.00	5158.17	153.60	153.60	177.84	7985.25	7818.64	47.93	
5400.00	5235.88	0.00	0.00	5252.88	156.48	156.48	177.85	8017.35	7847.58	47.23	
5500.00	5330.58	0.00	0.00	5347.58	159.35	159.35	177.86	8049.45	7876.52	46.55	
5600.00	5425.28	0.00	0.00	5442.28	162.23	162.23	177.87	8081.55	7905.46	45.90	
5700.00	5519.98	0.00	0.00	5536.98	165.10	165.10	177.87	8113.65	7934.40	45.26	
5800.00	5614.68	0.00	0.00	5631.68	167.98	167.98	177.88	8145.75	7963.33	44.66	
5900.00	5709.38	0.00	0.00	5726.38	170.86	170.86	177.89	8177.85	7992.27	44.07	
6000.00	5804.08	0.00	0.00	5821.08	173.73	173.73	177.90	8209.95	8021.21	43.50	
6100.00	5898.78	0.00	0.00	5915.78	176.61	176.61	177.91	8242.05	8050.14	42.95	
6200.00	5993.49	0.00	0.00	6010.49	179.48	179.48	177.92	8274.15	8079.08	42.42	
6300.00	6089.95	0.00	0.00	6106.95	182.41	182.41	179.22	8300.17	8101.92	41.87	
6400.00	6189.10	0.00	0.00	6206.10	185.42	185.42	186.62	8312.56	8111.11	41.26	
6500.00	6289.00	0.00	0.00	6306.00	188.46	188.46	349.82	8311.05	8106.44	40.62	
6600.00	6387.71	0.00	0.00	6404.71	191.46	191.46	353.75	8295.69	8087.98	39.94	
6700.00	6483.31	0.00	0.00	6500.31	194.36	194.36	354.51	8266.76	8056.11	39.24	
6800.00	6573.94	0.00	0.00	6590.94	197.11	197.11	354.63	8224.84	8011.43	38.54	
6900.00	6657.83	0.00	0.00	6674.83	199.66	199.66	354.42	8170.73	7954.81	37.84	
7000.00	6733.35	0.00	0.00	6750.35	201.95	201.95	353.92	8105.50	7887.33	37.15	
7100.00	6799.03	0.00	0.00	6816.03	203.95	203.95	353.03	8030.41	7810.30	36.48	
7200.00	6853.60	0.00	0.00	6870.60	205.60	205.60	351.52	7946.92	7725.22	35.84	
7300.00	6895.98	0.00	0.00	6912.98	206.89	206.89	348.74	7856.67	7633.73	35.24	
7400.00	6925.36	0.00	0.00	6942.36	207.78	207.78	342.59	7761.42	7537.61	34.68	
7500.00	6941.16	0.00	0.00	6958.16	208.26	208.26	321.56	7663.00	7438.73	34.17	
7600.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	7563.33	7338.98	33.71	
7700.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	7463.58	7239.19	33.26	
7800.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	7363.84	7139.39	32.81	
7900.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	7264.11	7039.62	32.36	
8000.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	7164.38	6939.87	31.91	
8100.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	7064.66	6840.14	31.47	
8200.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	6964.95	6740.38	31.01	
8300.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	6865.25	6640.61	30.56	
8400.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	6765.55	6540.85	30.11	
8500.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	6665.87	6441.09	29.66	
8600.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	6566.19	6341.35	29.20	
8700.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	6466.53	6241.61	28.75	
8800.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	6366.87	6141.85	28.29	
8900.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	6267.23	6042.10	27.84	
9000.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	6167.60	5942.38	27.38	
9100.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	6067.98	5842.63	26.93	
9200.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	5968.37	5742.88	26.47	
9300.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	5868.77	5643.15	26.01	
9400.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	5769.19	5543.44	25.55	
9500.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	5669.63	5443.73	25.10	
9600.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	5570.08	5344.03	24.64	
9700.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	5470.55	5244.30	24.18	
9800.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	5371.03	5144.58	23.72	
9900.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	5271.53	5044.87	23.26	
10000.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	5172.05	4945.17	22.80	
10100.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	5072.60	4845.49	22.34	
10200.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	4973.16	4745.79	21.87	
10300.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	4873.75	4646.07	21.41	
10400.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	4774.36	4546.38	20.94	

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
10500.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	4675.00	4446.69	20.48	
10600.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	4575.66	4347.02	20.01	
10700.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	4476.36	4247.37	19.55	
10800.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	4377.08	4147.72	19.08	
10900.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	4277.85	4048.04	18.62	
11000.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	4178.64	3948.39	18.15	
11100.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	4079.48	3848.76	17.68	
11200.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	3980.36	3749.14	17.22	
11300.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	3881.28	3649.55	16.75	
11400.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	3782.25	3549.96	16.28	
11500.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	3683.27	3450.36	15.81	
11600.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	3584.35	3350.74	15.34	
11700.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	3485.50	3251.12	14.87	
11800.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	3386.71	3151.54	14.40	
11900.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	3287.99	3051.99	13.93	
12000.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	3189.35	2952.47	13.46	
12100.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	3090.80	2852.99	13.00	
12200.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	2992.35	2753.56	12.53	
12300.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	2894.00	2654.17	12.07	
12400.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	2795.77	2554.84	11.60	
12500.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	2697.67	2455.47	11.14	
12600.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	2599.71	2356.01	10.67	
12700.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	2501.92	2256.40	10.19	
12800.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	2404.30	2156.83	9.72	
12900.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	2306.89	2057.33	9.24	
13000.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	2209.72	1957.91	8.78	
13100.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	2112.80	1858.57	8.31	
13200.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	2016.19	1759.34	7.85	
13300.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	1919.93	1660.24	7.39	
13400.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	1824.07	1561.31	6.94	
13500.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	1728.67	1462.42	6.49	
13600.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	1633.83	1363.75	6.05	
13700.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	1539.64	1265.38	5.61	
13800.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	1446.23	1167.40	5.19	
13900.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	1353.76	1068.98	4.75	
14000.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	1262.44	971.06	4.33	
14100.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	1172.54	873.77	3.92	
14200.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	1084.41	777.49	3.53	
14300.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	998.51	682.38	3.16	
14400.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	915.49	587.72	2.79	
14500.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	836.19	495.98	2.46	SF(Lo)
14600.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	761.77	406.80	2.15	SF(Lo)
14700.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	693.82	322.67	1.87	SF(Lo)
14800.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	634.41	245.39	1.63	SF(Lo)
14900.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	586.15	179.89	1.44	SF(Med)
15000.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	551.96	130.93	1.31	SF(Med)
15100.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	534.55	103.88	1.24	SF(Med)
15200.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	535.57	102.59	1.24	SF(Med)
15300.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	554.91	127.14	1.30	SF(Med)
15400.00	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	590.78	173.89	1.42	SF(Med)
15473.86	6944.00	0.00	0.00	6961.00	208.35	208.35	270.00	626.26	220.21	1.54	SF(Lo)
Secondary Well: Goetzel 32C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	20.04	19.31	27.33	CC (Med)
100.00	100.00	0.00	0.00	100.00	0.11	0.11	0.35	20.04	19.08	21.01	CC (Med)
200.00	200.00	0.00	0.00	200.00	0.34	0.34	0.35	20.04	18.64	14.28	CC (Med)

5D Anti-Collision Report

Secondary Well: Goetzel 32C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
300.00	300.00	0.00	0.00	300.00	0.56	0.56	0.35	20.04	18.19	10.81	CC (Med)
400.00	400.00	0.00	0.00	400.00	0.79	0.79	0.35	20.04	17.74	8.70	CC (Med)
500.00	500.00	0.00	0.00	500.00	1.01	1.01	0.35	20.04	17.29	7.28	CC (Med)
600.00	600.00	0.00	0.00	600.00	1.24	1.24	0.35	20.04	16.84	6.26	CC (Med)
700.00	700.00	0.00	0.00	700.00	1.46	1.46	0.35	20.04	16.39	5.49	CC (Med)
800.00	800.00	0.00	0.00	800.00	1.69	1.69	0.35	20.04	15.94	4.89	CC (Med)
900.00	900.00	0.00	0.00	900.00	1.91	1.91	0.35	20.04	15.49	4.40	CC (Med)
1000.00	1000.00	0.00	0.00	1000.00	2.14	2.14	0.35	20.04	15.04	4.01	CC (Med)
1100.00	1100.00	0.00	0.00	1100.00	2.36	2.36	0.35	20.04	14.59	3.68	CC (Med)
1200.00	1200.00	0.00	0.00	1200.00	2.58	2.58	0.35	20.04	14.14	3.40	CC (Med)
1300.00	1300.00	0.00	0.00	1300.00	2.81	2.81	0.35	20.04	13.69	3.16	CC (Med)
1400.00	1400.00	0.00	0.00	1400.00	3.03	3.03	0.35	20.04	13.24	2.95	CC (Med)
1500.00	1500.00	0.00	0.00	1500.00	3.26	3.26	0.35	20.04	12.79	2.76	CC (Med)
1600.00	1600.00	0.00	0.00	1600.00	3.48	3.48	0.35	20.04	12.34	2.60	CC (Med)
1700.00	1700.00	0.00	0.00	1700.00	3.71	3.71	0.35	20.04	11.89	2.46	SF(Lo); CC (Med)
1800.00	1800.00	0.00	0.00	1800.00	3.93	3.93	0.35	20.04	11.44	2.33	SF(Lo); CC (Med)
1900.00	1899.81	2.00	78.00	1899.79	4.15	4.15	5.10	20.48	11.48	2.27	SF(Lo); CC (Med)
2000.00	1999.38	3.99	78.00	1999.22	4.35	4.34	17.82	22.58	13.13	2.39	SF(Lo); CC (Med)
2100.00	2098.63	5.97	78.00	2098.09	4.57	4.54	305.52	26.89	17.05	2.73	CC (Med)
2200.00	2197.63	7.95	78.00	2196.36	4.80	4.73	313.85	32.40	22.16	3.16	CC (Med)
2300.00	2296.40	9.93	78.00	2293.92	5.05	4.93	319.16	38.62	27.97	3.62	CC (Lo)
2400.00	2394.93	11.90	78.00	2390.66	5.32	5.12	322.51	45.27	34.22	4.09	CC (Lo)
2500.00	2493.21	13.86	78.00	2486.47	5.63	5.31	324.60	52.21	40.73	4.55	CC (Lo)
2600.00	2591.26	15.83	78.00	2581.24	5.99	5.50	325.83	59.35	47.42	4.98	CC (Lo)
2700.00	2689.70	17.19	78.00	2675.51	6.40	5.71	326.42	66.52	54.11	5.36	
2800.00	2789.56	17.19	78.00	2770.92	6.85	5.95	325.65	71.53	58.54	5.51	
2900.00	2889.49	17.19	78.00	2866.39	7.33	6.20	323.41	73.72	60.06	5.40	
3000.00	2989.39	17.19	78.00	2961.82	7.82	6.45	319.92	73.86	59.41	5.11	
3100.00	3089.28	17.19	78.00	3057.25	8.34	6.71	316.33	74.11	58.79	4.84	
3200.00	3189.17	17.19	78.00	3152.69	8.87	6.97	312.78	74.64	58.36	4.59	
3300.00	3289.06	17.19	78.00	3248.12	9.41	7.23	309.29	75.46	58.11	4.35	
3400.00	3388.96	17.19	78.00	3343.55	9.96	7.50	305.89	76.55	58.04	4.14	
3500.00	3488.85	17.19	78.00	3438.98	10.52	7.77	302.59	77.90	58.18	3.95	
3600.00	3588.74	17.19	78.00	3534.41	11.09	8.04	299.42	79.51	58.51	3.79	
3700.00	3688.63	17.19	78.00	3629.84	11.66	8.32	296.38	81.34	59.04	3.65	
3800.00	3788.53	17.19	78.00	3725.28	12.24	8.60	293.49	83.40	59.77	3.53	
3900.00	3888.42	17.19	78.00	3820.71	12.83	8.88	290.74	85.65	60.68	3.43	
4000.00	3988.31	17.19	78.00	3916.14	13.41	9.16	288.13	88.10	61.77	3.35	
4100.00	4088.20	17.19	78.00	4011.57	14.00	9.44	285.67	90.72	63.02	3.28	
4200.00	4188.09	17.19	78.00	4107.00	14.60	9.72	283.36	93.49	64.42	3.22	
4300.00	4287.99	17.19	78.00	4202.44	15.19	10.01	281.18	96.41	65.99	3.17	
4400.00	4387.88	17.19	78.00	4297.87	15.79	10.30	279.13	99.46	67.72	3.13	
4500.00	4487.77	17.19	78.00	4393.30	16.39	10.58	277.20	102.63	69.53	3.10	
4600.00	4587.66	17.19	78.00	4488.73	17.00	10.87	275.39	105.91	71.48	3.08	
4700.00	4687.55	17.19	78.00	4584.16	17.60	11.16	273.69	109.29	73.56	3.06	
4800.00	4787.45	17.19	78.00	4679.59	18.21	11.45	272.10	112.76	75.72	3.04	
4900.00	4887.34	17.19	78.00	4775.03	18.81	11.75	270.60	116.31	77.96	3.03	
5000.00	4987.23	17.19	78.00	4870.46	19.42	12.04	269.19	119.93	80.29	3.03	
5100.00	5087.12	17.19	78.00	4965.89	20.03	12.33	267.86	123.62	82.70	3.02	
5200.00	5187.01	17.19	78.00	5061.32	20.64	12.63	266.61	127.38	85.20	3.02	
5300.00	5286.91	17.19	78.00	5156.75	21.25	12.92	265.44	131.19	87.77	3.02	
5400.00	5386.80	17.19	78.00	5252.18	21.87	13.22	264.33	135.06	90.41	3.02	
5500.00	5486.69	17.19	78.00	5347.62	22.48	13.51	263.28	138.97	93.11	3.03	
5600.00	5586.58	17.19	78.00	5443.05	23.09	13.81	262.29	142.93	95.84	3.04	
5700.00	5686.47	17.19	78.00	5538.48	23.71	14.10	261.35	146.92	98.60	3.04	

5D Anti-Collision Report

Secondary Well: Goetzel 32C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
5800.00	5786.37	17.19	78.00	5633.91	24.32	14.40	260.47	150.96	101.42	3.05	
5900.00	5886.26	17.19	78.00	5729.34	24.94	14.70	259.63	155.03	104.28	3.05	
6000.00	5986.15	17.19	78.00	5824.78	25.55	15.00	258.83	159.13	107.18	3.06	
6100.00	6086.04	17.19	78.00	5920.21	26.17	15.30	258.07	163.26	110.12	3.07	
6200.00	6185.93	17.19	78.00	6015.64	26.79	15.59	257.35	167.41	113.09	3.08	
6300.00	6285.74	17.19	78.00	6110.99	27.41	15.89	259.70	170.04	114.45	3.06	
6400.00	6384.11	17.19	78.00	6204.96	28.01	16.19	272.81	170.45	113.56	3.00	
6500.00	6479.57	10.68	72.21	6297.39	28.41	16.44	84.16	172.60	115.40	3.02	
6600.00	6578.06	3.67	38.72	6395.08	28.63	16.44	96.08	178.68	122.18	3.16	
6700.00	6680.43	6.36	292.29	6497.20	28.68	16.12	104.28	188.29	133.42	3.43	
6800.00	6787.10	14.53	277.52	6602.03	28.58	15.48	111.07	200.63	147.89	3.80	
6900.00	6898.46	23.34	273.25	6707.27	28.34	14.51	116.68	214.63	164.37	4.27	
7000.00	7014.77	32.59	271.18	6809.89	28.02	13.24	121.23	229.18	181.14	4.77	
7100.00	7136.10	42.27	269.91	6906.12	27.69	11.77	124.80	243.18	197.22	5.29	
7200.00	7262.25	52.34	269.01	6991.56	27.48	10.32	127.49	255.60	211.30	5.77	
7300.00	7392.65	62.75	268.30	7061.44	27.50	9.30	129.36	265.58	222.14	6.11	
7400.00	7526.33	73.43	267.71	7111.24	27.92	9.18	130.48	272.39	228.53	6.21	
7500.00	7661.95	84.27	267.17	7137.42	28.76	10.14	130.86	275.58	230.26	6.08	
7600.00	7780.97	90.00	266.89	7141.00	29.79	11.20	130.74	275.79	228.45	5.83	
7700.00	7880.97	90.00	266.89	7141.00	30.91	11.68	130.70	276.06	226.89	5.61	
7800.00	7980.97	90.00	266.89	7141.00	32.23	12.19	130.65	276.33	225.03	5.39	
7900.00	8080.97	90.00	266.89	7141.00	33.73	12.71	130.60	276.60	222.88	5.15	
8000.00	8180.97	90.00	266.89	7141.00	35.38	13.26	130.55	276.87	220.49	4.91	
8100.00	8280.97	90.00	266.89	7141.00	37.18	13.82	130.50	277.14	217.90	4.68	
8200.00	8380.97	90.00	266.89	7141.00	39.09	14.40	130.46	277.41	215.14	4.45	
8300.00	8480.97	90.00	266.89	7141.00	41.10	15.00	130.41	277.68	212.23	4.24	
8400.00	8580.97	90.00	266.89	7141.00	43.21	15.60	130.36	277.95	209.19	4.04	
8500.00	8680.96	90.00	266.89	7141.00	45.38	16.22	130.31	278.22	206.05	3.86	
8600.00	8780.96	90.00	266.89	7141.00	47.63	16.84	130.27	278.49	202.80	3.68	
8700.00	8880.96	90.00	266.89	7141.00	49.93	17.48	130.22	278.76	199.46	3.52	
8800.00	8980.96	90.00	266.89	7141.00	52.27	18.12	130.17	279.04	196.05	3.36	
8900.00	9080.96	90.00	266.89	7141.00	54.66	18.76	130.12	279.31	192.59	3.22	
9000.00	9180.96	90.00	266.89	7141.00	57.09	19.42	130.08	279.58	189.08	3.09	
9100.00	9280.96	90.00	266.89	7141.00	59.55	20.08	130.03	279.85	185.53	2.97	
9200.00	9380.96	90.00	266.89	7141.00	62.04	20.74	129.98	280.12	181.89	2.85	
9300.00	9480.96	90.00	266.89	7141.00	64.55	21.41	129.94	280.40	178.18	2.74	
9400.00	9580.96	90.00	266.89	7141.00	67.09	22.08	129.89	280.67	174.40	2.64	
9500.00	9680.96	90.00	266.89	7141.00	69.65	22.76	129.84	280.94	170.57	2.55	
9600.00	9780.96	90.00	266.89	7141.00	72.22	23.44	129.80	281.21	166.72	2.46	SF(Lo)
9700.00	9880.96	90.00	266.89	7141.00	74.81	24.12	129.75	281.49	162.85	2.37	SF(Lo)
9800.00	9980.96	90.00	266.89	7141.00	77.42	24.81	129.71	281.76	158.95	2.29	SF(Lo)
9900.00	10080.96	90.00	266.89	7141.00	80.04	25.50	129.66	282.03	155.01	2.22	SF(Lo)
10000.00	10180.95	90.00	266.89	7141.00	82.67	26.19	129.61	282.31	151.06	2.15	SF(Lo)
10100.00	10280.95	90.00	266.89	7141.00	85.31	26.88	129.57	282.58	147.08	2.09	SF(Lo)
10200.00	10380.95	90.00	266.89	7141.00	87.96	27.58	129.52	282.86	143.09	2.02	SF(Lo)
10300.00	10480.95	90.00	266.89	7141.00	90.62	28.28	129.48	283.13	139.07	1.97	SF(Lo)
10400.00	10580.95	90.00	266.89	7141.00	93.29	28.97	129.43	283.41	135.05	1.91	SF(Lo)
10500.00	10680.95	90.00	266.89	7141.00	95.96	29.67	129.38	283.68	131.00	1.86	SF(Lo)
10600.00	10780.95	90.00	266.89	7141.00	98.64	30.38	129.34	283.95	126.94	1.81	SF(Lo)
10700.00	10880.95	90.00	266.89	7141.00	101.33	31.08	129.29	284.23	122.87	1.76	SF(Lo)
10800.00	10980.95	90.00	266.89	7141.00	104.03	31.79	129.25	284.50	118.79	1.72	SF(Lo)
10900.00	11080.95	90.00	266.89	7141.00	106.73	32.49	129.20	284.78	114.69	1.67	SF(Lo)
11000.00	11180.95	90.00	266.89	7141.00	109.43	33.20	129.16	285.06	110.58	1.63	SF(Lo)
11100.00	11280.95	90.00	266.89	7141.00	112.14	33.91	129.11	285.33	106.46	1.60	SF(Lo)
11200.00	11380.95	90.00	266.89	7141.00	114.85	34.62	129.07	285.61	102.33	1.56	SF(Lo)
11300.00	11480.95	90.00	266.89	7141.00	117.57	35.33	129.02	285.88	98.19	1.52	SF(Lo)
11400.00	11580.95	90.00	266.89	7141.00	120.29	36.04	128.98	286.16	94.03	1.49	SF(Med)
11500.00	11680.95	90.00	266.89	7141.00	123.02	36.75	128.93	286.44	89.87	1.46	SF(Med)

5D Anti-Collision Report

Secondary Well: Goetzel 32C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
11600.00	11780.94	90.00	266.89	7141.00	125.75	37.47	128.89	286.71	85.70	1.43	SF(Med)
11700.00	11880.94	90.00	266.89	7141.00	128.48	38.18	128.84	286.99	81.52	1.40	SF(Med)
11800.00	11980.94	90.00	266.89	7141.00	131.21	38.89	128.80	287.27	77.33	1.37	SF(Med)
11900.00	12080.94	90.00	266.89	7141.00	133.95	39.61	128.76	287.54	73.14	1.34	SF(Med)
12000.00	12180.94	90.00	266.89	7141.00	136.69	40.32	128.71	287.82	68.93	1.31	SF(Med)
12100.00	12280.94	90.00	266.89	7141.00	139.43	41.04	128.67	288.10	64.72	1.29	SF(Med)
12200.00	12380.94	90.00	266.89	7141.00	142.17	41.76	128.62	288.38	60.50	1.27	SF(Med)
12300.00	12480.94	90.00	266.89	7141.00	144.92	42.48	128.58	288.65	56.27	1.24	SF(Med)
12400.00	12580.94	90.00	266.89	7141.00	147.67	43.19	128.53	288.93	52.03	1.22	SF(Med)
12500.00	12680.94	90.00	266.89	7141.00	150.42	43.91	128.49	289.21	47.79	1.20	SF(Med)
12600.00	12780.94	90.00	266.89	7141.00	153.17	44.63	128.45	289.49	43.54	1.18	SF(Med)
12700.00	12880.94	90.00	266.89	7141.00	155.92	45.35	128.40	289.77	39.29	1.16	SF(Med)
12800.00	12980.94	90.00	266.89	7141.00	158.68	46.07	128.36	290.05	35.02	1.14	SF(Med)
12900.00	13080.94	90.00	266.89	7141.00	161.43	46.79	128.32	290.32	30.75	1.12	SF(Med)
13000.00	13180.94	90.00	266.89	7141.00	164.19	47.51	128.27	290.60	26.48	1.10	SF(Med)
13100.00	13280.94	90.00	266.89	7141.00	166.95	48.24	128.23	290.88	22.19	1.08	SF(Med)
13200.00	13380.93	90.00	266.89	7141.00	169.71	48.96	128.19	291.16	17.90	1.07	SF(Med)
13300.00	13480.93	90.00	266.89	7141.00	172.47	49.68	128.14	291.44	13.61	1.05	SF(Med)
13400.00	13580.93	90.00	266.89	7141.00	175.23	50.40	128.10	291.72	9.31	1.03	SF(Med)
13500.00	13680.93	90.00	266.89	7141.00	178.00	51.12	128.06	292.00	5.00	1.02	SF(Med)
13600.00	13780.93	90.00	266.89	7141.00	180.76	51.85	128.01	292.28	0.69	1.00	SF(Med)
13700.00	13880.93	90.00	266.89	7141.00	183.53	52.57	127.97	292.56	-3.63	0.99	SF(Hi)
13800.00	13980.93	90.00	266.89	7141.00	186.30	53.29	127.93	292.84	-7.95	0.97	SF(Hi)
13900.00	14080.93	90.00	266.89	7141.00	189.06	54.02	127.89	293.12	-12.28	0.96	SF(Hi)
14000.00	14180.93	90.00	266.89	7141.00	191.83	54.74	127.84	293.40	-16.62	0.95	SF(Hi)
14100.00	14280.93	90.00	266.89	7141.00	194.60	55.47	127.80	293.68	-20.96	0.93	SF(Hi)
14200.00	14380.93	90.00	266.89	7141.00	197.37	56.19	127.76	293.96	-25.30	0.92	SF(Hi)
14300.00	14480.93	90.00	266.89	7141.00	200.14	56.91	127.72	294.25	-29.65	0.91	SF(Hi)
14400.00	14580.93	90.00	266.89	7141.00	202.92	57.64	127.67	294.53	-34.01	0.90	SF(Hi)
14500.00	14680.93	90.00	266.89	7141.00	205.69	58.36	127.63	294.81	-38.37	0.88	SF(Hi)
14600.00	14780.93	90.00	266.89	7141.00	208.46	59.09	127.59	295.09	-42.74	0.87	SF(Hi)
14700.00	14880.93	90.00	266.89	7141.00	211.24	59.82	127.55	295.37	-47.11	0.86	SF(Hi)
14800.00	14980.92	90.00	266.89	7141.00	214.01	60.54	127.50	295.65	-51.48	0.85	SF(Hi)
14900.00	15080.92	90.00	266.89	7141.00	216.79	61.27	127.46	295.94	-55.86	0.84	SF(Hi)
15000.00	15180.92	90.00	266.89	7141.00	219.56	61.99	127.42	296.22	-60.25	0.83	SF(Hi)
15100.00	15280.92	90.00	266.89	7141.00	222.34	62.72	127.38	296.50	-64.64	0.82	SF(Hi)
15200.00	15380.92	90.00	266.89	7141.00	225.12	63.45	127.34	296.78	-69.03	0.81	SF(Hi)
15300.00	15480.92	90.00	266.89	7141.00	227.90	64.17	127.30	297.07	-73.43	0.80	SF(Hi)
15400.00	15580.92	90.00	266.89	7141.00	230.67	64.90	127.25	297.35	-77.84	0.79	SF(Hi)
15473.86	15644.54	90.00	266.89	7141.00	232.44	65.36	127.23	297.73	-80.41	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	179.55	20.04	19.30	27.32	CC (Med)
100.00	100.00	0.00	0.00	100.00	0.11	0.11	179.55	20.04	19.08	21.00	CC (Med)
200.00	200.00	0.00	0.00	200.00	0.34	0.34	179.55	20.04	18.63	14.28	CC (Med)
300.00	300.00	0.00	0.00	300.00	0.56	0.56	179.55	20.04	18.18	10.81	CC (Med)
400.00	400.00	0.00	0.00	400.00	0.79	0.79	179.55	20.04	17.73	8.70	CC (Med)
500.00	500.00	0.00	0.00	500.00	1.01	1.01	179.55	20.04	17.28	7.28	CC (Med)
600.00	600.00	0.00	0.00	600.00	1.24	1.24	179.55	20.04	16.83	6.26	CC (Med)
700.00	700.00	0.00	0.00	700.00	1.46	1.46	179.55	20.04	16.39	5.49	CC (Med)
800.00	800.00	0.00	0.00	800.00	1.69	1.69	179.55	20.04	15.94	4.89	CC (Med)
900.00	900.00	0.00	0.00	900.00	1.91	1.91	179.55	20.04	15.49	4.40	CC (Med)
1000.00	1000.00	0.00	0.00	1000.00	2.14	2.14	179.55	20.04	15.04	4.01	CC (Med)
1100.00	1100.00	0.00	0.00	1100.00	2.36	2.36	179.55	20.04	14.59	3.68	CC (Med)
1200.00	1200.00	0.00	0.00	1200.00	2.58	2.58	179.55	20.04	14.14	3.40	CC (Med)
1300.00	1300.00	0.00	0.00	1300.00	2.81	2.81	179.55	20.04	13.69	3.16	CC (Med)

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
1400.00	1400.00	0.00	0.00	1400.00	3.03	3.03	179.55	20.04	13.24	2.95	CC (Med)
1500.00	1500.00	0.00	0.00	1500.00	3.26	3.26	179.55	20.04	12.79	2.76	CC (Med)
1600.00	1600.00	0.00	0.00	1600.00	3.48	3.48	179.55	20.04	12.34	2.60	CC (Med)
1700.00	1700.00	0.00	0.00	1700.00	3.71	3.71	179.55	20.04	11.89	2.46	SF(Lo); CC (Med)
1800.00	1799.92	2.00	92.75	1799.90	3.92	3.92	174.61	20.21	11.64	2.36	SF(Lo); CC (Med)
1900.00	1899.60	3.99	92.75	1899.44	4.12	4.11	160.78	21.58	12.59	2.40	SF(Lo); CC (Med)
2000.00	1998.79	5.98	92.75	1998.25	4.33	4.30	142.92	26.11	16.72	2.78	CC (Med)
2100.00	2097.49	7.95	92.75	2096.22	4.56	4.49	44.51	33.89	24.11	3.47	CC (Lo)
2200.00	2195.84	9.92	92.75	2193.37	4.80	4.68	36.92	43.01	32.84	4.23	CC (Lo)
2300.00	2293.83	11.88	92.75	2289.59	5.08	4.87	32.49	52.78	42.22	5.00	CC (Lo)
2400.00	2391.48	13.83	92.75	2384.78	5.39	5.06	29.84	62.88	51.94	5.75	CC (Lo)
2500.00	2488.78	15.78	92.75	2478.85	5.75	5.25	28.25	73.19	61.86	6.46	
2600.00	2586.84	16.91	92.75	2572.83	6.16	5.46	27.42	83.35	71.60	7.09	
2700.00	2686.55	16.91	92.75	2668.23	6.62	5.70	27.63	90.97	78.71	7.42	
2800.00	2786.42	16.91	92.75	2763.78	7.10	5.94	28.81	95.53	82.72	7.46	
2900.00	2886.33	16.91	92.75	2859.38	7.60	6.19	30.93	97.11	83.70	7.24	
3000.00	2986.21	16.91	92.75	2954.93	8.12	6.45	33.89	96.50	82.39	6.84	
3100.00	3086.07	16.91	92.75	3050.48	8.65	6.71	36.97	95.96	81.07	6.44	
3200.00	3185.94	16.91	92.75	3146.03	9.19	6.97	40.07	95.70	79.94	6.07	
3300.00	3285.80	16.91	92.75	3241.58	9.75	7.24	43.18	95.73	79.00	5.72	
3400.00	3385.66	16.91	92.75	3337.13	10.31	7.50	46.28	96.03	78.26	5.40	
3500.00	3485.53	16.91	92.75	3432.67	10.88	7.78	49.35	96.62	77.72	5.11	
3600.00	3585.39	16.91	92.75	3528.22	11.45	8.05	52.38	97.48	77.36	4.85	
3700.00	3685.26	16.91	92.75	3623.77	12.03	8.33	55.34	98.60	77.22	4.61	
3800.00	3785.12	16.91	92.75	3719.32	12.61	8.60	58.23	99.99	77.29	4.41	
3900.00	3884.99	16.91	92.75	3814.86	13.20	8.88	61.04	101.62	77.54	4.22	
4000.00	3984.85	16.91	92.75	3910.41	13.79	9.17	63.75	103.49	78.04	4.07	
4100.00	4084.72	16.91	92.75	4005.96	14.38	9.45	66.35	105.58	78.70	3.93	
4200.00	4184.58	16.91	92.75	4101.51	14.97	9.73	68.86	107.89	79.59	3.81	
4300.00	4284.45	16.91	92.75	4197.06	15.57	10.02	71.25	110.39	80.64	3.71	
4400.00	4384.31	16.91	92.75	4292.60	16.17	10.30	73.53	113.07	81.89	3.63	
4500.00	4484.17	16.91	92.75	4388.15	16.77	10.59	75.71	115.93	83.34	3.56	
4600.00	4584.04	16.91	92.75	4483.70	17.37	10.88	77.78	118.94	84.90	3.49	
4700.00	4683.90	16.91	92.75	4579.25	17.98	11.17	79.74	122.10	86.64	3.44	
4800.00	4783.77	16.91	92.75	4674.79	18.58	11.46	81.60	125.40	88.55	3.40	
4900.00	4883.63	16.91	92.75	4770.34	19.19	11.75	83.37	128.83	90.60	3.37	
5000.00	4983.50	16.91	92.75	4865.89	19.79	12.04	85.04	132.37	92.75	3.34	
5100.00	5083.36	16.91	92.75	4961.44	20.40	12.34	86.62	136.01	95.03	3.32	
5200.00	5183.23	16.91	92.75	5056.99	21.01	12.63	88.12	139.76	97.43	3.30	
5300.00	5283.09	16.91	92.75	5152.53	21.62	12.92	89.55	143.60	99.95	3.29	
5400.00	5382.96	16.91	92.75	5248.08	22.23	13.22	90.89	147.52	102.54	3.28	
5500.00	5482.82	16.91	92.75	5343.63	22.84	13.51	92.17	151.51	105.21	3.27	
5600.00	5582.69	16.91	92.75	5439.18	23.45	13.80	93.38	155.58	107.96	3.27	
5700.00	5682.55	16.91	92.75	5534.72	24.06	14.10	94.53	159.71	110.81	3.27	
5800.00	5782.41	16.91	92.75	5630.27	24.68	14.40	95.62	163.91	113.73	3.27	
5900.00	5882.28	16.91	92.75	5725.82	25.29	14.69	96.65	168.16	116.72	3.27	
6000.00	5982.14	16.91	92.75	5821.37	25.90	14.99	97.64	172.46	119.78	3.27	
6100.00	6082.01	16.91	92.75	5916.91	26.52	15.29	98.57	176.82	122.90	3.28	
6200.00	6181.87	16.91	92.75	6012.46	27.13	15.58	99.46	181.21	126.08	3.29	
6300.00	6280.89	15.08	93.53	6107.31	27.72	15.89	99.94	184.85	128.57	3.28	
6400.00	6377.76	7.45	100.92	6202.24	28.04	16.05	105.35	188.21	131.27	3.31	
6500.00	6475.55	1.94	194.90	6299.74	28.18	15.93	266.61	191.86	134.69	3.36	
6600.00	6574.34	8.70	254.56	6398.09	28.18	15.53	268.69	195.76	138.70	3.43	
6700.00	6674.18	16.60	260.49	6495.43	28.04	14.85	267.73	199.83	143.15	3.53	
6800.00	6775.11	24.64	262.66	6589.83	27.81	13.93	266.33	203.98	147.81	3.63	
6900.00	6877.17	32.78	263.82	6679.26	27.53	12.81	264.86	208.10	152.56	3.75	

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
7000.00	6980.34	41.02	264.56	6761.69	27.25	11.59	263.43	212.06	157.13	3.86	
7100.00	7084.59	49.35	265.10	6835.10	27.06	10.39	262.10	215.75	161.26	3.96	
7200.00	7189.86	57.77	265.52	6897.57	27.00	9.42	260.92	219.02	164.69	4.03	
7300.00	7296.04	66.26	265.87	6947.35	27.17	8.90	259.89	221.76	167.17	4.06	
7400.00	7403.02	74.81	266.18	6982.97	27.60	9.04	259.03	223.87	168.41	4.04	
7500.00	7510.64	83.42	266.47	7003.27	28.30	9.84	258.35	225.24	168.39	3.96	
7600.00	7616.76	90.00	266.68	7008.00	29.24	10.91	257.98	225.74	167.06	3.85	
7700.00	7716.76	90.00	266.68	7008.00	30.33	11.38	257.98	225.75	164.89	3.71	
7800.00	7816.76	90.00	266.68	7008.00	31.63	11.88	257.98	225.77	162.33	3.56	
7900.00	7916.76	90.00	266.68	7008.00	33.11	12.40	257.99	225.78	159.41	3.40	
8000.00	8016.76	90.00	266.68	7008.00	34.76	12.95	257.99	225.80	156.18	3.24	
8100.00	8116.76	90.00	266.68	7008.00	36.54	13.51	257.99	225.81	152.68	3.09	
8200.00	8216.76	90.00	266.68	7008.00	38.45	14.09	257.99	225.82	148.95	2.94	
8300.00	8316.76	90.00	266.68	7008.00	40.46	14.68	257.99	225.84	145.02	2.79	
8400.00	8416.76	90.00	266.68	7008.00	42.56	15.28	257.99	225.85	140.92	2.66	
8500.00	8516.76	90.00	266.68	7008.00	44.74	15.90	257.99	225.87	136.67	2.53	
8600.00	8616.76	90.00	266.68	7008.00	46.98	16.52	257.99	225.88	132.29	2.41	SF(Lo)
8700.00	8716.76	90.00	266.68	7008.00	49.28	17.15	257.99	225.90	127.81	2.30	SF(Lo)
8800.00	8816.76	90.00	266.68	7008.00	51.63	17.79	257.99	225.91	123.22	2.20	SF(Lo)
8900.00	8916.76	90.00	266.68	7008.00	54.02	18.44	257.99	225.93	118.56	2.10	SF(Lo)
9000.00	9016.76	90.00	266.68	7008.00	56.45	19.10	257.99	225.94	113.82	2.02	SF(Lo)
9100.00	9116.76	90.00	266.68	7008.00	58.91	19.76	257.99	225.96	109.02	1.93	SF(Lo)
9200.00	9216.76	90.00	266.68	7008.00	61.41	20.42	258.00	225.97	104.16	1.86	SF(Lo)
9300.00	9316.76	90.00	266.68	7008.00	63.92	21.09	258.00	225.99	99.25	1.78	SF(Lo)
9400.00	9416.76	90.00	266.68	7008.00	66.46	21.76	258.00	226.00	94.30	1.72	SF(Lo)
9500.00	9516.76	90.00	266.68	7008.00	69.02	22.44	258.00	226.02	89.31	1.65	SF(Lo)
9600.00	9616.76	90.00	266.68	7008.00	71.60	23.12	258.00	226.03	84.28	1.59	SF(Lo)
9700.00	9716.76	90.00	266.68	7008.00	74.19	23.80	258.00	226.04	79.23	1.54	SF(Lo)
9800.00	9816.76	90.00	266.68	7008.00	76.80	24.49	258.00	226.06	74.14	1.49	SF(Med)
9900.00	9916.76	90.00	266.68	7008.00	79.42	25.18	258.00	226.07	69.03	1.44	SF(Med)
10000.00	10016.76	90.00	266.68	7008.00	82.05	25.87	258.00	226.09	63.90	1.39	SF(Med)
10100.00	10116.76	90.00	266.68	7008.00	84.69	26.57	258.00	226.10	58.74	1.35	SF(Med)
10200.00	10216.76	90.00	266.68	7008.00	87.34	27.26	258.00	226.12	53.57	1.31	SF(Med)
10300.00	10316.76	90.00	266.68	7008.00	90.00	27.96	258.00	226.13	48.38	1.27	SF(Med)
10400.00	10416.76	90.00	266.68	7008.00	92.67	28.66	258.00	226.15	43.17	1.24	SF(Med)
10500.00	10516.76	90.00	266.68	7008.00	95.35	29.36	258.01	226.16	37.95	1.20	SF(Med)
10600.00	10616.76	90.00	266.68	7008.00	98.03	30.06	258.01	226.18	32.71	1.17	SF(Med)
10700.00	10716.76	90.00	266.68	7008.00	100.72	30.77	258.01	226.19	27.46	1.14	SF(Med)
10800.00	10816.76	90.00	266.68	7008.00	103.42	31.47	258.01	226.21	22.20	1.11	SF(Med)
10900.00	10916.76	90.00	266.68	7008.00	106.12	32.18	258.01	226.22	16.93	1.08	SF(Med)
11000.00	11016.76	90.00	266.68	7008.00	108.82	32.89	258.01	226.24	11.65	1.05	SF(Med)
11100.00	11116.76	90.00	266.68	7008.00	111.53	33.60	258.01	226.25	6.37	1.03	SF(Med)
11200.00	11216.76	90.00	266.68	7008.00	114.25	34.31	258.01	226.26	1.07	1.00	SF(Med)
11300.00	11316.76	90.00	266.68	7008.00	116.96	35.02	258.01	226.28	-4.23	0.98	SF(Hi)
11400.00	11416.76	90.00	266.68	7008.00	119.69	35.73	258.01	226.29	-9.55	0.96	SF(Hi)
11500.00	11516.76	90.00	266.68	7008.00	122.41	36.44	258.01	226.31	-14.87	0.94	SF(Hi)
11600.00	11616.76	90.00	266.68	7008.00	125.14	37.16	258.01	226.32	-20.19	0.92	SF(Hi)
11700.00	11716.76	90.00	266.68	7008.00	127.87	37.87	258.02	226.34	-25.52	0.90	SF(Hi)
11800.00	11816.76	90.00	266.68	7008.00	130.60	38.59	258.02	226.35	-30.86	0.88	SF(Hi)
11900.00	11916.76	90.00	266.68	7008.00	133.34	39.30	258.02	226.37	-36.20	0.86	SF(Hi)
12000.00	12016.76	90.00	266.68	7008.00	136.08	40.02	258.02	226.38	-41.55	0.84	SF(Hi)
12100.00	12116.76	90.00	266.68	7008.00	138.82	40.73	258.02	226.40	-46.90	0.83	SF(Hi)
12200.00	12216.76	90.00	266.68	7008.00	141.57	41.45	258.02	226.41	-52.25	0.81	SF(Hi)
12300.00	12316.76	90.00	266.68	7008.00	144.31	42.17	258.02	226.43	-57.61	0.80	SF(Hi)
12400.00	12416.76	90.00	266.68	7008.00	147.06	42.89	258.02	226.44	-62.98	0.78	SF(Hi)
12500.00	12516.76	90.00	266.68	7008.00	149.81	43.61	258.02	226.46	-68.34	0.77	SF(Hi)
12600.00	12616.76	90.00	266.68	7008.00	152.56	44.33	258.02	226.47	-73.71	0.75	SF(Hi)
12700.00	12716.76	90.00	266.68	7008.00	155.32	45.05	258.02	226.48	-79.09	0.74	SF(Hi)

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
12800.00	12816.76	90.00	266.68	7008.00	158.07	45.77	258.02	226.50	-84.46	0.73	SF(Hi)
12900.00	12916.76	90.00	266.68	7008.00	160.83	46.49	258.02	226.51	-89.84	0.72	SF(Hi)
13000.00	13016.76	90.00	266.68	7008.00	163.58	47.21	258.03	226.53	-95.23	0.70	SF(Hi)
13100.00	13116.76	90.00	266.68	7008.00	166.34	47.93	258.03	226.54	-100.61	0.69	SF(Hi)
13200.00	13216.76	90.00	266.68	7008.00	169.10	48.65	258.03	226.56	-106.00	0.68	SF(Hi)
13300.00	13316.76	90.00	266.68	7008.00	171.86	49.38	258.03	226.57	-111.39	0.67	SF(Hi)
13400.00	13416.76	90.00	266.68	7008.00	174.63	50.10	258.03	226.59	-116.79	0.66	SF(Hi)
13500.00	13516.76	90.00	266.68	7008.00	177.39	50.82	258.03	226.60	-122.18	0.65	SF(Hi)
13600.00	13616.76	90.00	266.68	7008.00	180.16	51.55	258.03	226.62	-127.58	0.64	SF(Hi)
13700.00	13716.76	90.00	266.68	7008.00	182.92	52.27	258.03	226.63	-132.98	0.63	SF(Hi)
13800.00	13816.76	90.00	266.68	7008.00	185.69	52.99	258.03	226.65	-138.38	0.62	SF(Hi)
13900.00	13916.76	90.00	266.68	7008.00	188.46	53.72	258.03	226.66	-143.78	0.61	SF(Hi)
14000.00	14016.76	90.00	266.68	7008.00	191.22	54.44	258.03	226.68	-149.19	0.60	SF(Hi)
14100.00	14116.76	90.00	266.68	7008.00	193.99	55.17	258.03	226.69	-154.59	0.59	SF(Hi)
14200.00	14216.76	90.00	266.68	7008.00	196.76	55.89	258.03	226.70	-160.00	0.59	SF(Hi)
14300.00	14316.76	90.00	266.68	7008.00	199.53	56.62	258.04	226.72	-165.41	0.58	SF(Hi)
14400.00	14416.76	90.00	266.68	7008.00	202.31	57.34	258.04	226.73	-170.82	0.57	SF(Hi)
14500.00	14516.76	90.00	266.68	7008.00	205.08	58.07	258.04	226.75	-176.23	0.56	SF(Hi)
14600.00	14616.76	90.00	266.68	7008.00	207.85	58.79	258.04	226.76	-181.65	0.56	SF(Hi)
14700.00	14716.76	90.00	266.68	7008.00	210.63	59.52	258.04	226.78	-187.06	0.55	SF(Hi)
14800.00	14816.76	90.00	266.68	7008.00	213.40	60.24	258.04	226.79	-192.48	0.54	SF(Hi)
14900.00	14916.76	90.00	266.68	7008.00	216.18	60.97	258.04	226.81	-197.90	0.53	SF(Hi)
15000.00	15016.76	90.00	266.68	7008.00	218.95	61.70	258.04	226.82	-203.32	0.53	SF(Hi)
15100.00	15116.76	90.00	266.68	7008.00	221.73	62.42	258.04	226.84	-208.74	0.52	SF(Hi)
15200.00	15216.76	90.00	266.68	7008.00	224.50	63.15	258.04	226.85	-214.16	0.51	SF(Hi)
15300.00	15316.76	90.00	266.68	7008.00	227.28	63.88	258.04	226.87	-219.58	0.51	SF(Hi)
15400.00	15416.76	90.00	266.68	7008.00	230.06	64.60	258.04	226.88	-225.00	0.50	SF(Hi)
15473.86	15490.62	90.00	266.68	7008.00	232.11	65.14	258.04	226.89	-229.01	0.50	SF(Hi)
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	179.95	39.71	38.98	54.15	CC (Lo)
100.00	100.00	0.00	0.00	100.00	0.11	0.11	179.95	39.71	38.76	41.63	CC (Lo)
200.00	200.00	0.00	0.00	200.00	0.34	0.34	179.95	39.71	38.31	28.29	CC (Lo)
300.00	300.00	0.00	0.00	300.00	0.56	0.56	179.95	39.71	37.86	21.43	CC (Lo)
400.00	400.00	0.00	0.00	400.00	0.79	0.79	179.95	39.71	37.41	17.25	CC (Lo)
500.00	500.00	0.00	0.00	500.00	1.01	1.01	179.95	39.71	36.96	14.43	CC (Lo)
600.00	600.00	0.00	0.00	600.00	1.24	1.24	179.95	39.71	36.51	12.40	CC (Lo)
700.00	700.00	0.00	0.00	700.00	1.46	1.46	179.95	39.71	36.06	10.88	CC (Lo)
800.00	800.00	0.00	0.00	800.00	1.69	1.69	179.95	39.71	35.61	9.68	CC (Lo)
900.00	900.00	0.00	0.00	900.00	1.91	1.91	179.95	39.71	35.16	8.73	CC (Lo)
1000.00	1000.00	0.00	0.00	1000.00	2.14	2.14	179.95	39.71	34.71	7.94	CC (Lo)
1100.00	1100.00	0.00	0.00	1100.00	2.36	2.36	179.95	39.71	34.26	7.29	CC (Lo)
1200.00	1200.00	0.00	0.00	1200.00	2.58	2.58	179.95	39.71	33.81	6.73	CC (Lo)
1300.00	1300.00	0.00	0.00	1300.00	2.81	2.81	179.95	39.71	33.36	6.25	CC (Lo)
1400.00	1400.00	0.00	0.00	1400.00	3.03	3.03	179.95	39.71	32.91	5.84	CC (Lo)
1500.00	1499.86	1.00	100.92	1499.86	3.25	3.25	179.34	39.79	32.56	5.50	CC (Lo)
1600.00	1599.47	2.99	100.92	1599.40	3.45	3.44	174.55	40.64	32.99	5.32	CC (Lo)
1700.00	1698.72	4.97	100.92	1698.40	3.65	3.63	165.72	43.11	35.05	5.35	CC (Lo)
1800.00	1797.37	6.95	100.92	1796.52	3.86	3.82	154.66	48.47	40.00	5.72	CC (Lo)
1900.00	1895.20	8.90	100.92	1893.41	4.10	4.01	143.73	57.74	48.84	6.49	CC (Lo)
2000.00	1991.99	10.84	100.92	1988.77	4.36	4.20	134.52	71.33	62.03	7.67	
2100.00	2087.89	12.76	100.92	2082.64	4.66	4.39	42.88	87.90	78.18	9.05	
2200.00	2183.18	14.66	100.92	2175.20	5.00	4.58	38.82	105.56	95.49	10.48	
2300.00	2277.85	16.56	100.92	2266.38	5.38	4.78	36.30	123.86	113.40	11.84	
2400.00	2375.57	16.88	100.92	2359.90	5.83	5.01	34.87	141.51	130.60	12.97	
2500.00	2474.45	16.88	100.92	2454.51	6.31	5.25	34.45	156.41	145.03	13.74	

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
2600.00	2573.70	16.88	100.92	2549.49	6.81	5.50	34.78	168.47	156.58	14.17	
2700.00	2673.22	16.88	100.92	2644.72	7.34	5.75	35.74	177.71	165.29	14.32	
2800.00	2772.87	16.88	100.92	2740.08	7.87	6.01	37.26	184.22	171.18	14.12	
2900.00	2872.54	16.88	100.92	2835.45	8.43	6.28	39.37	188.17	174.42	13.69	
3000.00	2972.14	16.88	100.92	2930.76	8.98	6.55	41.97	190.28	175.80	13.14	
3100.00	3071.74	16.88	100.92	3026.06	9.55	6.82	44.57	192.62	177.26	12.54	
3200.00	3171.33	16.88	100.92	3121.36	10.13	7.09	47.10	195.35	179.04	11.98	
3300.00	3270.92	16.88	100.92	3216.66	10.70	7.37	49.56	198.45	181.18	11.49	
3400.00	3370.51	16.88	100.92	3311.96	11.29	7.64	51.94	201.91	183.55	11.00	
3500.00	3470.10	16.88	100.92	3407.26	11.88	7.92	54.24	205.71	186.21	10.55	
3600.00	3569.70	16.88	100.92	3502.55	12.47	8.20	56.45	209.82	189.17	10.16	
3700.00	3669.29	16.88	100.92	3597.85	13.06	8.49	58.57	214.24	192.41	9.82	
3800.00	3768.88	16.88	100.92	3693.15	13.66	8.77	60.61	218.94	195.82	9.47	
3900.00	3868.47	16.88	100.92	3788.45	14.26	9.06	62.55	223.91	199.47	9.16	
4000.00	3968.06	16.88	100.92	3883.75	14.86	9.34	64.42	229.12	203.38	8.90	
4100.00	4067.65	16.88	100.92	3979.05	15.46	9.63	66.19	234.57	207.52	8.67	
4200.00	4167.25	16.88	100.92	4074.35	16.06	9.92	67.89	240.23	211.88	8.47	
4300.00	4266.84	16.88	100.92	4169.65	16.67	10.21	69.50	246.09	216.40	8.29	
4400.00	4366.43	16.88	100.92	4264.95	17.28	10.50	71.04	252.14	221.04	8.11	
4500.00	4466.02	16.88	100.92	4360.25	17.88	10.79	72.51	258.36	225.87	7.95	
4600.00	4565.61	16.88	100.92	4455.55	18.49	11.08	73.91	264.75	230.86	7.81	
4700.00	4665.21	16.88	100.92	4550.85	19.10	11.38	75.24	271.28	236.02	7.69	
4800.00	4764.80	16.88	100.92	4646.15	19.71	11.67	76.51	277.95	241.32	7.59	
4900.00	4864.39	16.88	100.92	4741.45	20.32	11.96	77.72	284.76	246.76	7.49	
5000.00	4963.98	16.88	100.92	4836.74	20.93	12.26	78.87	291.68	252.34	7.41	
5100.00	5063.57	16.88	100.92	4932.04	21.55	12.55	79.97	298.72	258.03	7.34	
5200.00	5163.16	16.88	100.92	5027.34	22.16	12.85	81.02	305.86	263.84	7.28	
5300.00	5262.76	16.88	100.92	5122.64	22.77	13.14	82.02	313.10	269.72	7.22	
5400.00	5362.35	16.88	100.92	5217.94	23.39	13.44	82.97	320.43	275.67	7.16	
5500.00	5461.94	16.88	100.92	5313.24	24.00	13.73	83.88	327.84	281.69	7.10	
5600.00	5561.53	16.88	100.92	5408.54	24.61	14.03	84.75	335.34	287.80	7.05	
5700.00	5661.12	16.88	100.92	5503.84	25.23	14.33	85.59	342.90	293.99	7.01	
5800.00	5760.71	16.88	100.92	5599.14	25.84	14.62	86.38	350.54	300.25	6.97	
5900.00	5860.31	16.88	100.92	5694.44	26.46	14.92	87.15	358.24	306.59	6.94	
6000.00	5959.90	16.88	100.92	5789.74	27.08	15.22	87.88	366.00	313.00	6.91	
6100.00	6059.49	16.88	100.92	5885.04	27.69	15.52	88.58	373.82	319.47	6.88	
6200.00	6159.86	11.45	107.98	5981.96	28.14	15.78	89.78	381.61	326.02	6.86	
6300.00	6258.38	4.98	142.68	6079.46	28.34	15.80	93.71	389.73	333.23	6.90	
6400.00	6355.00	6.39	227.44	6175.75	28.36	15.55	103.71	398.44	341.58	7.01	
6500.00	6449.92	13.15	249.36	6269.27	28.23	15.05	269.41	407.50	350.67	7.17	
6600.00	6543.32	20.37	256.11	6358.65	27.99	14.33	275.71	416.62	360.15	7.38	
6700.00	6635.39	27.62	259.36	6442.71	27.68	13.44	278.69	425.55	369.65	7.61	
6800.00	6726.31	34.82	261.33	6520.41	27.36	12.43	280.91	434.02	378.81	7.86	
6900.00	6816.26	41.97	262.67	6590.86	27.07	11.36	282.67	441.78	387.28	8.11	
7000.00	6905.42	49.07	263.68	6653.29	26.84	10.32	284.10	448.63	394.75	8.33	
7100.00	6993.95	56.12	264.48	6707.04	26.74	9.44	285.20	454.37	400.90	8.50	
7200.00	7082.02	63.14	265.16	6751.53	26.81	8.86	286.01	458.86	405.46	8.59	
7300.00	7169.76	70.14	265.76	6786.30	27.06	8.69	286.54	461.99	408.26	8.60	
7400.00	7257.34	77.13	266.31	6810.96	27.50	9.01	286.78	463.68	409.19	8.51	
7500.00	7344.90	84.11	266.82	6825.21	28.12	9.76	286.75	463.89	408.21	8.33	
7600.00	7434.52	90.00	267.24	6829.00	28.91	10.72	286.57	462.86	405.59	8.08	
7700.00	7534.51	90.00	267.24	6829.00	30.01	11.20	286.60	461.93	402.54	7.78	
7800.00	7634.51	90.00	267.24	6829.00	31.30	11.71	286.64	461.00	399.13	7.45	
7900.00	7734.51	90.00	267.24	6829.00	32.78	12.24	286.67	460.07	395.35	7.11	
8000.00	7834.50	90.00	267.24	6829.00	34.43	12.79	286.71	459.14	391.26	6.76	
8100.00	7934.50	90.00	267.24	6829.00	36.22	13.36	286.74	458.21	386.91	6.43	
8200.00	8034.49	90.00	267.24	6829.00	38.13	13.94	286.78	457.29	382.32	6.10	
8300.00	8134.49	90.00	267.24	6829.00	40.14	14.54	286.81	456.36	377.52	5.79	

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
8400.00	8234.48	90.00	267.24	6829.00	42.25	15.15	286.85	455.43	372.56	5.50	
8500.00	8334.48	90.00	267.24	6829.00	44.43	15.77	286.88	454.50	367.46	5.22	
8600.00	8434.47	90.00	267.24	6829.00	46.68	16.40	286.92	453.58	362.23	4.97	
8700.00	8534.47	90.00	267.24	6829.00	48.98	17.04	286.96	452.65	356.90	4.73	
8800.00	8634.46	90.00	267.24	6829.00	51.34	17.68	286.99	451.72	351.48	4.51	
8900.00	8734.46	90.00	267.24	6829.00	53.74	18.33	287.03	450.79	345.98	4.30	
9000.00	8834.45	90.00	267.24	6829.00	56.17	18.99	287.06	449.87	340.41	4.11	
9100.00	8934.45	90.00	267.24	6829.00	58.64	19.66	287.10	448.94	334.78	3.93	
9200.00	9034.44	90.00	267.24	6829.00	61.13	20.32	287.14	448.01	329.10	3.77	
9300.00	9134.44	90.00	267.24	6829.00	63.66	21.00	287.17	447.09	323.37	3.61	
9400.00	9234.44	90.00	267.24	6829.00	66.20	21.67	287.21	446.16	317.61	3.47	
9500.00	9334.43	90.00	267.24	6829.00	68.76	22.35	287.25	445.24	311.81	3.34	
9600.00	9434.43	90.00	267.24	6829.00	71.34	23.04	287.28	444.31	305.98	3.21	
9700.00	9534.42	90.00	267.24	6829.00	73.94	23.72	287.32	443.38	300.12	3.09	
9800.00	9634.42	90.00	267.24	6829.00	76.55	24.41	287.36	442.46	294.24	2.99	
9900.00	9734.41	90.00	267.24	6829.00	79.18	25.10	287.40	441.53	288.34	2.88	
10000.00	9834.41	90.00	267.24	6829.00	81.82	25.80	287.43	440.61	282.42	2.79	
10100.00	9934.40	90.00	267.24	6829.00	84.46	26.49	287.47	439.68	276.48	2.69	
10200.00	10034.40	90.00	267.24	6829.00	87.12	27.19	287.51	438.76	270.52	2.61	
10300.00	10134.39	90.00	267.24	6829.00	89.78	27.89	287.55	437.84	264.55	2.53	
10400.00	10234.39	90.00	267.24	6829.00	92.46	28.59	287.59	436.91	258.57	2.45	SF(Lo)
10500.00	10334.38	90.00	267.24	6829.00	95.14	29.30	287.62	435.99	252.57	2.38	SF(Lo)
10600.00	10434.38	90.00	267.24	6829.00	97.83	30.00	287.66	435.06	246.57	2.31	SF(Lo)
10700.00	10534.37	90.00	267.24	6829.00	100.52	30.71	287.70	434.14	240.56	2.24	SF(Lo)
10800.00	10634.37	90.00	267.24	6829.00	103.22	31.41	287.74	433.22	234.53	2.18	SF(Lo)
10900.00	10734.36	90.00	267.24	6829.00	105.92	32.12	287.78	432.29	228.51	2.12	SF(Lo)
11000.00	10834.36	90.00	267.24	6829.00	108.63	32.83	287.82	431.37	222.47	2.06	SF(Lo)
11100.00	10934.36	90.00	267.24	6829.00	111.35	33.54	287.86	430.45	216.43	2.01	SF(Lo)
11200.00	11034.35	90.00	267.24	6829.00	114.07	34.25	287.90	429.53	210.38	1.96	SF(Lo)
11300.00	11134.35	90.00	267.24	6829.00	116.79	34.97	287.94	428.60	204.33	1.91	SF(Lo)
11400.00	11234.34	90.00	267.24	6829.00	119.51	35.68	287.98	427.68	198.27	1.86	SF(Lo)
11500.00	11334.34	90.00	267.24	6829.00	122.24	36.39	288.02	426.76	192.21	1.82	SF(Lo)
11600.00	11434.33	90.00	267.24	6829.00	124.97	37.11	288.06	425.84	186.15	1.78	SF(Lo)
11700.00	11534.33	90.00	267.24	6829.00	127.71	37.82	288.10	424.92	180.08	1.74	SF(Lo)
11800.00	11634.32	90.00	267.24	6829.00	130.45	38.54	288.14	423.99	174.01	1.70	SF(Lo)
11900.00	11734.32	90.00	267.24	6829.00	133.19	39.26	288.18	423.07	167.94	1.66	SF(Lo)
12000.00	11834.31	90.00	267.24	6829.00	135.93	39.97	288.22	422.15	161.86	1.62	SF(Lo)
12100.00	11934.31	90.00	267.24	6829.00	138.68	40.69	288.26	421.23	155.79	1.59	SF(Lo)
12200.00	12034.30	90.00	267.24	6829.00	141.42	41.41	288.30	420.31	149.71	1.55	SF(Lo)
12300.00	12134.30	90.00	267.24	6829.00	144.17	42.13	288.35	419.39	143.63	1.52	SF(Lo)
12400.00	12234.29	90.00	267.24	6829.00	146.92	42.85	288.39	418.47	137.55	1.49	SF(Med)
12500.00	12334.29	90.00	267.24	6829.00	149.68	43.57	288.43	417.55	131.47	1.46	SF(Med)
12600.00	12434.28	90.00	267.24	6829.00	152.43	44.29	288.47	416.63	125.39	1.43	SF(Med)
12700.00	12534.28	90.00	267.24	6829.00	155.19	45.01	288.51	415.71	119.31	1.40	SF(Med)
12800.00	12634.28	90.00	267.24	6829.00	157.95	45.73	288.56	414.79	113.23	1.38	SF(Med)
12900.00	12734.27	90.00	267.24	6829.00	160.71	46.45	288.60	413.88	107.15	1.35	SF(Med)
13000.00	12834.27	90.00	267.24	6829.00	163.47	47.17	288.64	412.96	101.07	1.32	SF(Med)
13100.00	12934.26	90.00	267.24	6829.00	166.23	47.90	288.69	412.04	94.99	1.30	SF(Med)
13200.00	13034.26	90.00	267.24	6829.00	168.99	48.62	288.73	411.12	88.91	1.28	SF(Med)
13300.00	13134.25	90.00	267.24	6829.00	171.76	49.34	288.77	410.20	82.83	1.25	SF(Med)
13400.00	13234.25	90.00	267.24	6829.00	174.52	50.06	288.82	409.28	76.75	1.23	SF(Med)
13500.00	13334.24	90.00	267.24	6829.00	177.29	50.79	288.86	408.37	70.68	1.21	SF(Med)
13600.00	13434.24	90.00	267.24	6829.00	180.06	51.51	288.90	407.45	64.60	1.19	SF(Med)
13700.00	13534.23	90.00	267.24	6829.00	182.83	52.24	288.95	406.53	58.53	1.17	SF(Med)
13800.00	13634.23	90.00	267.24	6829.00	185.60	52.96	288.99	405.62	52.46	1.15	SF(Med)
13900.00	13734.22	90.00	267.24	6829.00	188.37	53.68	289.04	404.70	46.38	1.13	SF(Med)
14000.00	13834.22	90.00	267.24	6829.00	191.14	54.41	289.08	403.78	40.31	1.11	SF(Med)
14100.00	13934.21	90.00	267.24	6829.00	193.91	55.13	289.13	402.87	34.25	1.09	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
14200.00	14034.21	90.00	267.24	6829.00	196.69	55.86	289.17	401.95	28.18	1.08	SF(Med)
14300.00	14134.20	90.00	267.24	6829.00	199.46	56.58	289.22	401.04	22.12	1.06	SF(Med)
14400.00	14234.20	90.00	267.24	6829.00	202.23	57.31	289.26	400.12	16.05	1.04	SF(Med)
14500.00	14334.20	90.00	267.24	6829.00	205.01	58.04	289.31	399.21	9.99	1.03	SF(Med)
14600.00	14434.19	90.00	267.24	6829.00	207.79	58.76	289.36	398.29	3.94	1.01	SF(Med)
14700.00	14534.19	90.00	267.24	6829.00	210.56	59.49	289.40	397.38	-2.12	0.99	SF(Hi)
14800.00	14634.18	90.00	267.24	6829.00	213.34	60.22	289.45	396.46	-8.17	0.98	SF(Hi)
14900.00	14734.18	90.00	267.24	6829.00	216.12	60.94	289.50	395.55	-14.22	0.97	SF(Hi)
15000.00	14834.17	90.00	267.24	6829.00	218.90	61.67	289.54	394.64	-20.27	0.95	SF(Hi)
15100.00	14934.17	90.00	267.24	6829.00	221.68	62.40	289.59	393.72	-26.32	0.94	SF(Hi)
15200.00	15034.16	90.00	267.24	6829.00	224.46	63.12	289.64	392.81	-32.36	0.92	SF(Hi)
15300.00	15134.16	90.00	267.24	6829.00	227.24	63.85	289.68	391.90	-38.40	0.91	SF(Hi)
15400.00	15234.15	90.00	267.24	6829.00	230.02	64.58	289.73	390.98	-44.44	0.90	SF(Hi)
15473.86	15308.00	90.00	267.24	6829.00	232.07	65.11	289.77	390.31	-48.89	0.89	SF(Hi)
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	180.08	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	1399.33	1.99	107.85	1399.31	3.02	3.01	178.53	60.30	53.53	8.90	CC (Lo)
1500.00	1498.42	3.97	107.85	1498.26	3.21	3.20	174.05	62.21	55.04	8.67	CC (Lo)
1600.00	1597.03	5.94	107.85	1596.50	3.42	3.39	167.28	66.18	58.57	8.70	
1700.00	1694.95	7.90	107.85	1693.70	3.64	3.58	159.26	73.07	65.04	9.10	
1800.00	1791.95	9.84	107.85	1789.53	3.89	3.77	151.16	83.61	75.16	9.89	
1900.00	1887.82	11.76	107.85	1883.70	4.17	3.96	143.85	98.17	89.30	11.06	
2000.00	1982.37	13.65	107.85	1975.93	4.49	4.15	137.71	116.79	107.50	12.57	
2100.00	2075.83	15.52	107.85	2066.38	4.85	4.34	47.90	138.18	128.51	14.29	
2200.00	2171.38	16.27	107.85	2158.17	5.27	4.56	44.79	160.20	150.14	15.91	
2300.00	2269.25	16.27	107.85	2252.12	5.73	4.79	43.08	180.27	169.75	17.15	
2400.00	2367.67	16.27	107.85	2346.60	6.21	5.04	42.39	197.88	186.88	17.99	
2500.00	2466.52	16.27	107.85	2441.49	6.72	5.29	42.45	212.95	201.45	18.51	
2600.00	2565.67	16.27	107.85	2536.67	7.24	5.55	43.11	225.50	213.46	18.72	
2700.00	2665.01	16.27	107.85	2632.03	7.77	5.81	44.31	235.61	222.97	18.65	
2800.00	2764.41	16.27	107.85	2727.45	8.32	6.07	46.01	243.41	230.11	18.30	
2900.00	2863.76	16.27	107.85	2822.81	8.87	6.34	48.21	249.11	235.07	17.75	
3000.00	2962.98	16.27	107.85	2918.06	9.42	6.61	50.84	253.42	238.52	17.02	
3100.00	3062.18	16.27	107.85	3013.29	9.99	6.88	53.44	258.12	242.28	16.30	
3200.00	3161.39	16.27	107.85	3108.52	10.55	7.16	55.95	263.34	246.51	15.65	
3300.00	3260.59	16.27	107.85	3203.74	11.12	7.43	58.35	269.05	251.16	15.04	
3400.00	3359.79	16.27	107.85	3298.97	11.69	7.71	60.66	275.21	256.22	14.49	
3500.00	3459.00	16.27	107.85	3394.20	12.27	7.99	62.85	281.81	261.65	13.98	
3600.00	3558.20	16.27	107.85	3489.43	12.84	8.27	64.95	288.80	267.46	13.53	
3700.00	3657.40	16.27	107.85	3584.66	13.42	8.55	66.95	296.17	273.58	13.11	
3800.00	3756.61	16.27	107.85	3679.89	14.00	8.83	68.85	303.88	280.04	12.75	
3900.00	3855.81	16.27	107.85	3775.12	14.59	9.11	70.65	311.90	286.79	12.42	

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
4000.00	3955.01	16.27	107.85	3870.35	15.17	9.40	72.36	320.22	293.81	12.12	
4100.00	4054.22	16.27	107.85	3965.58	15.75	9.68	73.99	328.82	301.10	11.86	
4200.00	4153.42	16.27	107.85	4060.81	16.34	9.97	75.53	337.66	308.65	11.64	
4300.00	4252.63	16.27	107.85	4156.04	16.93	10.26	76.99	346.74	316.38	11.42	
4400.00	4351.83	16.27	107.85	4251.27	17.52	10.54	78.38	356.03	324.34	11.24	
4500.00	4451.03	16.27	107.85	4346.49	18.11	10.83	79.70	365.52	332.51	11.07	
4600.00	4550.24	16.27	107.85	4441.72	18.69	11.12	80.95	375.19	340.86	10.93	
4700.00	4649.44	16.27	107.85	4536.95	19.28	11.41	82.14	385.03	349.40	10.81	
4800.00	4748.64	16.27	107.85	4632.18	19.88	11.70	83.26	395.03	358.07	10.69	
4900.00	4847.85	16.27	107.85	4727.41	20.47	11.99	84.34	405.17	366.88	10.58	
5000.00	4947.05	16.27	107.85	4822.64	21.06	12.28	85.36	415.45	375.84	10.49	
5100.00	5046.25	16.27	107.85	4917.87	21.65	12.57	86.33	425.85	384.92	10.41	
5200.00	5145.46	16.27	107.85	5013.10	22.24	12.86	87.25	436.37	394.13	10.33	
5300.00	5244.66	16.27	107.85	5108.33	22.84	13.15	88.13	446.99	403.44	10.26	
5400.00	5343.86	16.27	107.85	5203.56	23.43	13.44	88.97	457.71	412.83	10.20	
5500.00	5443.07	16.27	107.85	5298.79	24.02	13.73	89.77	468.53	422.32	10.14	
5600.00	5542.27	16.27	107.85	5394.02	24.62	14.03	90.54	479.44	431.91	10.09	
5700.00	5641.48	16.27	107.85	5489.25	25.21	14.32	91.27	490.42	441.58	10.04	
5800.00	5740.68	16.27	107.85	5584.47	25.81	14.61	91.97	501.48	451.33	10.00	
5900.00	5839.88	16.27	107.85	5679.70	26.40	14.90	92.64	512.61	461.16	9.96	
6000.00	5939.09	16.27	107.85	5774.93	27.00	15.20	93.28	523.81	471.07	9.93	
6100.00	6038.29	16.27	107.85	5870.16	27.59	15.49	93.89	535.07	481.04	9.90	
6200.00	6137.49	16.27	107.85	5965.39	28.19	15.78	94.48	546.39	491.07	9.88	
6300.00	6235.68	15.10	109.72	6059.69	28.75	16.08	96.42	557.42	501.06	9.89	
6400.00	6328.70	8.84	129.91	6150.68	29.06	16.24	104.07	568.40	511.56	10.00	
6500.00	6422.33	6.22	186.55	6243.61	29.12	16.17	267.51	579.55	522.59	10.17	
6600.00	6516.73	10.59	231.30	6337.07	28.98	15.85	271.71	590.69	533.90	10.40	
6700.00	6612.06	17.37	246.25	6429.54	28.68	15.29	272.75	601.63	545.23	10.67	
6800.00	6708.45	24.72	252.83	6519.46	28.27	14.49	273.19	612.18	556.31	10.96	
6900.00	6806.03	32.32	256.54	6605.14	27.80	13.49	273.37	622.14	566.86	11.25	
7000.00	6904.92	40.10	258.98	6684.88	27.32	12.32	273.40	631.34	576.54	11.52	
7100.00	7005.21	48.03	260.77	6756.88	26.93	11.10	273.30	639.60	585.10	11.74	
7200.00	7106.95	56.09	262.17	6819.38	26.70	9.98	273.11	646.76	592.27	11.87	
7300.00	7210.14	64.29	263.34	6870.63	26.70	9.18	272.84	652.65	597.77	11.89	
7400.00	7314.76	72.60	264.37	6909.04	27.00	8.97	272.49	657.14	601.36	11.78	
7500.00	7420.73	81.03	265.33	6933.19	27.61	9.50	272.07	660.12	602.89	11.53	
7600.00	7527.93	89.55	266.25	6941.98	28.49	10.69	271.65	661.53	602.43	11.19	
7700.00	7628.33	90.00	266.30	6942.00	29.54	11.22	271.64	662.21	600.94	10.81	
7800.00	7728.33	90.00	266.30	6942.00	30.77	11.71	271.64	662.89	599.09	10.39	
7900.00	7828.32	90.00	266.30	6942.00	32.19	12.23	271.64	663.57	596.89	9.95	
8000.00	7928.32	90.00	266.30	6942.00	33.79	12.77	271.64	664.25	594.25	9.49	
8100.00	8028.32	90.00	266.30	6942.00	35.54	13.33	271.64	664.93	591.34	9.04	
8200.00	8128.32	90.00	266.30	6942.00	37.41	13.91	271.64	665.61	588.20	8.60	
8300.00	8228.31	90.00	266.30	6942.00	39.40	14.51	271.63	666.29	584.86	8.18	
8400.00	8328.31	90.00	266.30	6942.00	41.47	15.11	271.63	666.97	581.35	7.79	
8500.00	8428.31	90.00	266.30	6942.00	43.63	15.73	271.63	667.65	577.69	7.42	
8600.00	8528.31	90.00	266.30	6942.00	45.86	16.35	271.63	668.33	573.89	7.08	
8700.00	8628.30	90.00	266.30	6942.00	48.14	16.99	271.63	669.01	569.98	6.76	
8800.00	8728.30	90.00	266.30	6942.00	50.48	17.63	271.63	669.69	565.98	6.46	
8900.00	8828.30	90.00	266.30	6942.00	52.86	18.28	271.62	670.37	561.88	6.18	
9000.00	8928.30	90.00	266.30	6942.00	55.28	18.94	271.62	671.05	557.71	5.92	
9100.00	9028.30	90.00	266.30	6942.00	57.74	19.60	271.62	671.73	553.48	5.68	
9200.00	9128.29	90.00	266.30	6942.00	60.22	20.26	271.62	672.41	549.18	5.46	
9300.00	9228.29	90.00	266.30	6942.00	62.73	20.93	271.62	673.09	544.84	5.25	
9400.00	9328.29	90.00	266.30	6942.00	65.27	21.61	271.62	673.77	540.45	5.05	
9500.00	9428.29	90.00	266.30	6942.00	67.82	22.29	271.61	674.45	536.02	4.87	
9600.00	9528.28	90.00	266.30	6942.00	70.39	22.97	271.61	675.13	531.55	4.70	
9700.00	9628.28	90.00	266.30	6942.00	72.98	23.65	271.61	675.81	527.05	4.54	

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
9800.00	9728.28	90.00	266.30	6942.00	75.59	24.34	271.61	676.49	522.53	4.39	
9900.00	9828.28	90.00	266.30	6942.00	78.21	25.03	271.61	677.17	517.97	4.25	
10000.00	9928.27	90.00	266.30	6942.00	80.83	25.72	271.61	677.85	513.39	4.12	
10100.00	10028.27	90.00	266.30	6942.00	83.47	26.42	271.60	678.53	508.79	4.00	
10200.00	10128.27	90.00	266.30	6942.00	86.12	27.11	271.60	679.21	504.18	3.88	
10300.00	10228.27	90.00	266.30	6942.00	88.78	27.81	271.60	679.88	499.54	3.77	
10400.00	10328.27	90.00	266.30	6942.00	91.45	28.51	271.60	680.56	494.89	3.67	
10500.00	10428.26	90.00	266.30	6942.00	94.12	29.22	271.60	681.24	490.22	3.57	
10600.00	10528.26	90.00	266.30	6942.00	96.81	29.92	271.60	681.92	485.54	3.47	
10700.00	10628.26	90.00	266.30	6942.00	99.49	30.62	271.60	682.60	480.84	3.38	
10800.00	10728.26	90.00	266.30	6942.00	102.19	31.33	271.59	683.28	476.14	3.30	
10900.00	10828.25	90.00	266.30	6942.00	104.89	32.04	271.59	683.96	471.42	3.22	
11000.00	10928.25	90.00	266.30	6942.00	107.59	32.75	271.59	684.64	466.70	3.14	
11100.00	11028.25	90.00	266.30	6942.00	110.30	33.46	271.59	685.32	461.96	3.07	
11200.00	11128.25	90.00	266.30	6942.00	113.01	34.17	271.59	686.00	457.22	3.00	
11300.00	11228.24	90.00	266.30	6942.00	115.73	34.88	271.59	686.68	452.47	2.93	
11400.00	11328.24	90.00	266.30	6942.00	118.45	35.59	271.58	687.36	447.71	2.87	
11500.00	11428.24	90.00	266.30	6942.00	121.17	36.30	271.58	688.04	442.94	2.81	
11600.00	11528.24	90.00	266.30	6942.00	123.90	37.02	271.58	688.72	438.17	2.75	
11700.00	11628.24	90.00	266.30	6942.00	126.63	37.73	271.58	689.40	433.39	2.69	
11800.00	11728.23	90.00	266.30	6942.00	129.36	38.45	271.58	690.08	428.61	2.64	
11900.00	11828.23	90.00	266.30	6942.00	132.10	39.16	271.58	690.76	423.82	2.59	
12000.00	11928.23	90.00	266.30	6942.00	134.83	39.88	271.57	691.44	419.02	2.54	
12100.00	12028.23	90.00	266.30	6942.00	137.58	40.60	271.57	692.12	414.22	2.49	SF(Lo)
12200.00	12128.22	90.00	266.30	6942.00	140.32	41.32	271.57	692.80	409.42	2.44	SF(Lo)
12300.00	12228.22	90.00	266.30	6942.00	143.06	42.03	271.57	693.48	404.61	2.40	SF(Lo)
12400.00	12328.22	90.00	266.30	6942.00	145.81	42.75	271.57	694.16	399.80	2.36	SF(Lo)
12500.00	12428.22	90.00	266.30	6942.00	148.56	43.47	271.57	694.84	394.99	2.32	SF(Lo)
12600.00	12528.21	90.00	266.30	6942.00	151.31	44.19	271.57	695.52	390.17	2.28	SF(Lo)
12700.00	12628.21	90.00	266.30	6942.00	154.06	44.91	271.56	696.20	385.34	2.24	SF(Lo)
12800.00	12728.21	90.00	266.30	6942.00	156.81	45.63	271.56	696.88	380.52	2.20	SF(Lo)
12900.00	12828.21	90.00	266.30	6942.00	159.57	46.35	271.56	697.56	375.69	2.17	SF(Lo)
13000.00	12928.21	90.00	266.30	6942.00	162.32	47.08	271.56	698.24	370.86	2.13	SF(Lo)
13100.00	13028.20	90.00	266.30	6942.00	165.08	47.80	271.56	698.92	366.03	2.10	SF(Lo)
13200.00	13128.20	90.00	266.30	6942.00	167.84	48.52	271.56	699.60	361.19	2.07	SF(Lo)
13300.00	13228.20	90.00	266.30	6942.00	170.60	49.24	271.55	700.28	356.35	2.04	SF(Lo)
13400.00	13328.20	90.00	266.30	6942.00	173.36	49.96	271.55	700.96	351.51	2.01	SF(Lo)
13500.00	13428.19	90.00	266.30	6942.00	176.12	50.69	271.55	701.64	346.67	1.98	SF(Lo)
13600.00	13528.19	90.00	266.30	6942.00	178.89	51.41	271.55	702.31	341.82	1.95	SF(Lo)
13700.00	13628.19	90.00	266.30	6942.00	181.65	52.14	271.55	702.99	336.97	1.92	SF(Lo)
13800.00	13728.19	90.00	266.30	6942.00	184.41	52.86	271.55	703.67	332.12	1.89	SF(Lo)
13900.00	13828.18	90.00	266.30	6942.00	187.18	53.58	271.55	704.35	327.27	1.87	SF(Lo)
14000.00	13928.18	90.00	266.30	6942.00	189.95	54.31	271.54	705.03	322.42	1.84	SF(Lo)
14100.00	14028.18	90.00	266.30	6942.00	192.72	55.03	271.54	705.71	317.57	1.82	SF(Lo)
14200.00	14128.18	90.00	266.30	6942.00	195.48	55.76	271.54	706.39	312.71	1.79	SF(Lo)
14300.00	14228.18	90.00	266.30	6942.00	198.25	56.48	271.54	707.07	307.85	1.77	SF(Lo)
14400.00	14328.17	90.00	266.30	6942.00	201.02	57.21	271.54	707.75	302.99	1.75	SF(Lo)
14500.00	14428.17	90.00	266.30	6942.00	203.79	57.93	271.54	708.43	298.13	1.73	SF(Lo)
14600.00	14528.17	90.00	266.30	6942.00	206.57	58.66	271.54	709.11	293.27	1.71	SF(Lo)
14700.00	14628.17	90.00	266.30	6942.00	209.34	59.39	271.53	709.79	288.40	1.68	SF(Lo)
14800.00	14728.16	90.00	266.30	6942.00	212.11	60.11	271.53	710.47	283.54	1.66	SF(Lo)
14900.00	14828.16	90.00	266.30	6942.00	214.88	60.84	271.53	711.15	278.67	1.64	SF(Lo)
15000.00	14928.16	90.00	266.30	6942.00	217.66	61.56	271.53	711.83	273.81	1.63	SF(Lo)
15100.00	15028.16	90.00	266.30	6942.00	220.43	62.29	271.53	712.51	268.94	1.61	SF(Lo)
15200.00	15128.15	90.00	266.30	6942.00	223.21	63.02	271.53	713.19	264.07	1.59	SF(Lo)
15300.00	15228.15	90.00	266.30	6942.00	225.98	63.74	271.53	713.87	259.20	1.57	SF(Lo)
15400.00	15328.15	90.00	266.30	6942.00	228.76	64.47	271.52	714.55	254.33	1.55	SF(Lo)
15473.86	15402.00	90.00	266.30	6942.00	230.81	65.01	271.52	715.05	250.73	1.54	SF(Lo)

5D Anti-Collision Report

Secondary Well: Goetzel 33C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	0.00	0.00	0.00	179.95	79.78	79.05	108.80	
100.00	100.00	0.00	0.00	100.00	0.11	0.11	179.95	79.78	78.83	83.64	
200.00	200.00	0.00	0.00	200.00	0.34	0.34	179.95	79.78	78.38	56.85	
300.00	300.00	0.00	0.00	300.00	0.56	0.56	179.95	79.78	77.93	43.06	
400.00	400.00	0.00	0.00	400.00	0.79	0.79	179.95	79.78	77.48	34.65	
500.00	500.00	0.00	0.00	500.00	1.01	1.01	179.95	79.78	77.03	28.99	
600.00	600.00	0.00	0.00	600.00	1.24	1.24	179.95	79.78	76.58	24.92	
700.00	700.00	0.00	0.00	700.00	1.46	1.46	179.95	79.78	76.13	21.85	
800.00	800.00	0.00	0.00	800.00	1.69	1.69	179.95	79.78	75.68	19.46	
900.00	900.00	0.00	0.00	900.00	1.91	1.91	179.95	79.78	75.23	17.53	
1000.00	1000.00	0.00	0.00	1000.00	2.14	2.14	179.95	79.78	74.78	15.96	
1100.00	1100.00	0.00	0.00	1100.00	2.36	2.36	179.95	79.78	74.33	14.64	
1200.00	1199.41	0.99	115.27	1199.40	2.57	2.57	179.67	79.97	74.09	13.60	
1300.00	1298.10	2.96	115.27	1298.04	2.76	2.76	177.52	81.52	75.23	12.97	
1400.00	1396.45	4.93	115.27	1396.14	2.96	2.94	173.47	84.94	78.25	12.69	
1500.00	1494.21	6.88	115.27	1493.39	3.17	3.13	168.05	90.80	83.67	12.73	
1600.00	1591.18	8.82	115.27	1589.44	3.41	3.32	161.94	99.70	92.15	13.21	
1700.00	1687.14	10.74	115.27	1684.00	3.67	3.51	155.81	112.11	104.14	14.06	
1800.00	1781.90	12.64	115.27	1776.79	3.98	3.71	150.13	128.29	119.87	15.23	
1900.00	1875.27	14.51	115.27	1867.55	4.32	3.90	145.16	148.29	139.46	16.81	
2000.00	1968.09	15.98	115.27	1957.03	4.71	4.10	140.93	171.96	162.70	18.58	
2100.00	2064.62	15.98	115.27	2049.83	5.16	4.34	52.46	196.26	186.56	20.25	
2200.00	2161.86	15.98	115.27	2143.32	5.64	4.58	50.44	218.80	208.67	21.58	
2300.00	2259.70	15.98	115.27	2237.38	6.13	4.83	49.42	239.27	228.67	22.56	
2400.00	2358.02	15.98	115.27	2331.90	6.64	5.08	49.15	257.53	246.45	23.24	
2500.00	2456.68	15.98	115.27	2426.75	7.17	5.34	49.47	273.56	261.95	23.57	
2600.00	2555.59	15.98	115.27	2521.83	7.70	5.60	50.30	287.40	275.21	23.57	
2700.00	2654.61	15.98	115.27	2617.03	8.25	5.87	51.58	299.17	286.35	23.34	
2800.00	2753.62	15.98	115.27	2712.21	8.80	6.14	53.29	309.04	295.54	22.90	
2900.00	2852.50	15.98	115.27	2807.28	9.35	6.41	55.41	317.24	302.95	22.21	
3000.00	2951.20	15.98	115.27	2902.17	9.91	6.68	57.91	324.43	309.22	21.33	
3100.00	3049.88	15.98	115.27	2997.03	10.47	6.96	60.38	332.12	315.96	20.55	
3200.00	3148.57	15.98	115.27	3091.90	11.03	7.23	62.74	340.41	323.24	19.83	
3300.00	3247.25	15.98	115.27	3186.77	11.59	7.51	64.98	349.25	330.97	19.11	
3400.00	3345.93	15.98	115.27	3281.64	12.16	7.79	67.10	358.61	339.21	18.48	
3500.00	3444.61	15.98	115.27	3376.51	12.73	8.07	69.12	368.44	347.91	17.94	
3600.00	3543.29	15.98	115.27	3471.38	13.30	8.35	71.04	378.71	357.01	17.46	
3700.00	3641.97	15.98	115.27	3566.25	13.87	8.63	72.85	389.37	366.43	16.97	
3800.00	3740.66	15.98	115.27	3661.12	14.45	8.91	74.56	400.41	376.20	16.54	
3900.00	3839.34	15.98	115.27	3755.99	15.02	9.19	76.19	411.79	386.32	16.17	
4000.00	3938.02	15.98	115.27	3850.86	15.60	9.48	77.72	423.48	396.75	15.84	
4100.00	4036.70	15.98	115.27	3945.73	16.17	9.76	79.18	435.46	407.48	15.56	
4200.00	4135.38	15.98	115.27	4040.60	16.75	10.05	80.55	447.70	418.48	15.32	
4300.00	4234.07	15.98	115.27	4135.47	17.33	10.33	81.86	460.19	429.71	15.10	
4400.00	4332.75	15.98	115.27	4230.34	17.91	10.62	83.09	472.90	441.12	14.88	
4500.00	4431.43	15.98	115.27	4325.21	18.49	10.90	84.26	485.82	452.72	14.68	
4600.00	4530.11	15.98	115.27	4420.08	19.07	11.19	85.37	498.93	464.51	14.50	
4700.00	4628.79	15.98	115.27	4514.95	19.65	11.48	86.42	512.21	476.49	14.34	
4800.00	4727.48	15.98	115.27	4609.82	20.23	11.76	87.42	525.66	488.64	14.20	
4900.00	4826.16	15.98	115.27	4704.69	20.81	12.05	88.37	539.25	500.95	14.08	
5000.00	4924.84	15.98	115.27	4799.56	21.39	12.34	89.27	552.99	513.40	13.97	
5100.00	5023.52	15.98	115.27	4894.42	21.97	12.63	90.13	566.86	525.99	13.87	
5200.00	5122.20	15.98	115.27	4989.29	22.55	12.92	90.95	580.84	538.70	13.78	
5300.00	5220.88	15.98	115.27	5084.16	23.13	13.20	91.73	594.94	551.53	13.71	
5400.00	5319.57	15.98	115.27	5179.03	23.72	13.49	92.47	609.14	564.47	13.64	
5500.00	5418.25	15.98	115.27	5273.90	24.30	13.78	93.18	623.44	577.51	13.58	
5600.00	5516.93	15.98	115.27	5368.77	24.88	14.07	93.86	637.82	590.65	13.52	
5700.00	5615.61	15.98	115.27	5463.64	25.47	14.36	94.51	652.29	603.86	13.47	

5D Anti-Collision Report

Secondary Well: Goetzel 33C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
5800.00	5714.29	15.98	115.27	5558.51	26.05	14.65	95.13	666.84	617.14	13.42	
5900.00	5812.98	15.98	115.27	5653.38	26.63	14.94	95.73	681.47	630.49	13.37	
6000.00	5911.66	15.98	115.27	5748.25	27.22	15.23	96.30	696.16	643.92	13.33	
6100.00	6010.34	15.98	115.27	5843.12	27.80	15.52	96.84	710.92	657.41	13.29	
6200.00	6109.02	15.98	115.27	5937.99	28.39	15.81	97.36	725.74	670.98	13.25	
6300.00	6207.93	15.98	115.27	6033.08	28.97	16.10	99.62	739.93	684.11	13.26	
6400.00	6306.10	15.98	115.27	6127.46	29.55	16.39	106.95	752.63	696.13	13.32	
6500.00	6401.33	15.76	115.73	6219.00	30.11	16.67	269.14	764.32	707.49	13.45	
6600.00	6488.30	10.32	135.49	6303.74	30.36	16.85	271.93	776.39	719.67	13.69	
6700.00	6578.73	7.81	180.08	6393.14	30.39	16.84	271.59	789.43	733.08	14.01	
6800.00	6673.35	11.18	222.79	6486.56	30.18	16.60	270.68	803.29	747.55	14.41	
6900.00	6772.98	17.76	241.35	6583.03	29.75	16.09	269.55	817.73	762.75	14.87	
7000.00	6878.57	25.59	250.06	6681.11	29.12	15.28	268.31	832.40	778.22	15.36	
7100.00	6991.11	34.25	255.07	6778.57	28.37	14.13	267.00	846.87	793.35	15.82	
7200.00	7111.55	43.65	258.42	6872.14	27.61	12.66	265.66	860.57	807.40	16.19	
7300.00	7240.63	53.81	260.93	6957.18	27.04	11.04	264.34	872.84	819.58	16.39	
7400.00	7378.55	64.70	262.97	7027.59	26.85	9.68	263.11	882.94	828.90	16.34	
7500.00	7524.69	76.27	264.76	7076.33	27.28	9.38	262.05	890.10	834.39	15.98	
7600.00	7677.33	88.36	266.46	7096.71	28.39	10.71	261.26	893.51	835.54	15.41	
7700.00	7784.66	90.00	266.68	7097.00	29.44	11.40	261.25	893.58	833.34	14.83	
7800.00	7884.66	90.00	266.68	7097.00	30.64	11.89	261.25	893.59	830.86	14.24	
7900.00	7984.66	90.00	266.68	7097.00	32.03	12.40	261.25	893.61	828.06	13.63	
8000.00	8084.66	90.00	266.68	7097.00	33.60	12.94	261.25	893.62	824.90	13.00	
8100.00	8184.66	90.00	266.68	7097.00	35.32	13.50	261.25	893.64	821.36	12.36	
8200.00	8284.66	90.00	266.68	7097.00	37.18	14.07	261.25	893.65	817.61	11.75	
8300.00	8384.66	90.00	266.68	7097.00	39.14	14.66	261.25	893.66	813.67	11.17	
8400.00	8484.66	90.00	266.68	7097.00	41.20	15.26	261.25	893.68	809.55	10.62	
8500.00	8584.66	90.00	266.68	7097.00	43.34	15.88	261.25	893.69	805.29	10.11	
8600.00	8684.66	90.00	266.68	7097.00	45.56	16.50	261.25	893.70	800.89	9.63	
8700.00	8784.66	90.00	266.68	7097.00	47.83	17.14	261.25	893.72	796.38	9.18	
8800.00	8884.66	90.00	266.68	7097.00	50.16	17.78	261.25	893.73	791.77	8.77	
8900.00	8984.66	90.00	266.68	7097.00	52.54	18.43	261.25	893.75	787.07	8.38	
9000.00	9084.66	90.00	266.68	7097.00	54.95	19.08	261.25	893.76	782.29	8.02	
9100.00	9184.66	90.00	266.68	7097.00	57.40	19.74	261.25	893.77	777.45	7.68	
9200.00	9284.66	90.00	266.68	7097.00	59.88	20.41	261.25	893.79	772.55	7.37	
9300.00	9384.66	90.00	266.68	7097.00	62.38	21.07	261.25	893.80	767.60	7.08	
9400.00	9484.66	90.00	266.68	7097.00	64.91	21.75	261.25	893.81	762.60	6.81	
9500.00	9584.66	90.00	266.68	7097.00	67.47	22.43	261.25	893.83	757.56	6.56	
9600.00	9684.66	90.00	266.68	7097.00	70.04	23.11	261.25	893.84	752.48	6.32	
9700.00	9784.66	90.00	266.68	7097.00	72.62	23.79	261.25	893.86	747.37	6.10	
9800.00	9884.66	90.00	266.68	7097.00	75.23	24.48	261.25	893.87	742.23	5.89	
9900.00	9984.66	90.00	266.68	7097.00	77.84	25.16	261.25	893.88	737.07	5.70	
10000.00	10084.66	90.00	266.68	7097.00	80.47	25.86	261.25	893.90	731.88	5.52	
10100.00	10184.66	90.00	266.68	7097.00	83.11	26.55	261.25	893.91	726.67	5.35	
10200.00	10284.66	90.00	266.68	7097.00	85.76	27.25	261.25	893.93	721.44	5.18	
10300.00	10384.66	90.00	266.68	7097.00	88.42	27.94	261.25	893.94	716.20	5.03	
10400.00	10484.66	90.00	266.68	7097.00	91.08	28.64	261.25	893.95	710.94	4.88	
10500.00	10584.66	90.00	266.68	7097.00	93.76	29.34	261.25	893.97	705.66	4.75	
10600.00	10684.66	90.00	266.68	7097.00	96.44	30.05	261.25	893.98	700.37	4.62	
10700.00	10784.66	90.00	266.68	7097.00	99.13	30.75	261.25	893.99	695.06	4.49	
10800.00	10884.66	90.00	266.68	7097.00	101.82	31.46	261.25	894.01	689.75	4.38	
10900.00	10984.66	90.00	266.68	7097.00	104.52	32.16	261.25	894.02	684.42	4.27	
11000.00	11084.66	90.00	266.68	7097.00	107.23	32.87	261.25	894.04	679.09	4.16	
11100.00	11184.66	90.00	266.68	7097.00	109.93	33.58	261.25	894.05	673.74	4.06	
11200.00	11284.66	90.00	266.68	7097.00	112.65	34.29	261.25	894.06	668.39	3.96	
11300.00	11384.66	90.00	266.68	7097.00	115.37	35.00	261.25	894.08	663.03	3.87	
11400.00	11484.66	90.00	266.68	7097.00	118.09	35.71	261.25	894.09	657.66	3.78	
11500.00	11584.66	90.00	266.68	7097.00	120.81	36.42	261.25	894.10	652.29	3.70	

5D Anti-Collision Report

Secondary Well: Goetzel 33C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
11600.00	11684.66	90.00	266.68	7097.00	123.54	37.14	261.25	894.12	646.91	3.62	
11700.00	11784.66	90.00	266.68	7097.00	126.27	37.85	261.25	894.13	641.52	3.54	
11800.00	11884.66	90.00	266.68	7097.00	129.00	38.57	261.25	894.15	636.13	3.47	
11900.00	11984.66	90.00	266.68	7097.00	131.74	39.28	261.25	894.16	630.73	3.39	
12000.00	12084.66	90.00	266.68	7097.00	134.48	40.00	261.25	894.17	625.33	3.33	
12100.00	12184.66	90.00	266.68	7097.00	137.22	40.71	261.25	894.19	619.92	3.26	
12200.00	12284.66	90.00	266.68	7097.00	139.97	41.43	261.25	894.20	614.51	3.20	
12300.00	12384.66	90.00	266.68	7097.00	142.71	42.15	261.25	894.21	609.09	3.14	
12400.00	12484.66	90.00	266.68	7097.00	145.46	42.87	261.25	894.23	603.67	3.08	
12500.00	12584.66	90.00	266.68	7097.00	148.21	43.59	261.25	894.24	598.25	3.02	
12600.00	12684.66	90.00	266.68	7097.00	150.96	44.31	261.25	894.26	592.82	2.97	
12700.00	12784.66	90.00	266.68	7097.00	153.71	45.02	261.25	894.27	587.39	2.91	
12800.00	12884.66	90.00	266.68	7097.00	156.47	45.75	261.25	894.28	581.96	2.86	
12900.00	12984.66	90.00	266.68	7097.00	159.22	46.47	261.25	894.30	576.52	2.81	
13000.00	13084.66	90.00	266.68	7097.00	161.98	47.19	261.25	894.31	571.08	2.77	
13100.00	13184.66	90.00	266.68	7097.00	164.74	47.91	261.25	894.33	565.64	2.72	
13200.00	13284.66	90.00	266.68	7097.00	167.50	48.63	261.25	894.34	560.19	2.68	
13300.00	13384.66	90.00	266.68	7097.00	170.26	49.35	261.25	894.35	554.75	2.63	
13400.00	13484.66	90.00	266.68	7097.00	173.03	50.07	261.25	894.37	549.30	2.59	
13500.00	13584.66	90.00	266.68	7097.00	175.79	50.80	261.25	894.38	543.85	2.55	
13600.00	13684.66	90.00	266.68	7097.00	178.55	51.52	261.25	894.39	538.39	2.51	
13700.00	13784.66	90.00	266.68	7097.00	181.32	52.24	261.25	894.41	532.94	2.47	SF(Lo)
13800.00	13884.66	90.00	266.68	7097.00	184.09	52.97	261.25	894.42	527.48	2.44	SF(Lo)
13900.00	13984.66	90.00	266.68	7097.00	186.85	53.69	261.25	894.44	522.02	2.40	SF(Lo)
14000.00	14084.66	90.00	266.68	7097.00	189.62	54.41	261.25	894.45	516.56	2.37	SF(Lo)
14100.00	14184.66	90.00	266.68	7097.00	192.39	55.14	261.25	894.46	511.10	2.33	SF(Lo)
14200.00	14284.66	90.00	266.68	7097.00	195.16	55.86	261.25	894.48	505.63	2.30	SF(Lo)
14300.00	14384.66	90.00	266.68	7097.00	197.93	56.59	261.25	894.49	500.17	2.27	SF(Lo)
14400.00	14484.66	90.00	266.68	7097.00	200.71	57.31	261.25	894.50	494.70	2.24	SF(Lo)
14500.00	14584.66	90.00	266.68	7097.00	203.48	58.04	261.26	894.52	489.23	2.21	SF(Lo)
14600.00	14684.66	90.00	266.68	7097.00	206.25	58.76	261.26	894.53	483.76	2.18	SF(Lo)
14700.00	14784.66	90.00	266.68	7097.00	209.03	59.49	261.26	894.55	478.29	2.15	SF(Lo)
14800.00	14884.66	90.00	266.68	7097.00	211.80	60.22	261.26	894.56	472.82	2.12	SF(Lo)
14900.00	14984.66	90.00	266.68	7097.00	214.57	60.94	261.26	894.57	467.35	2.09	SF(Lo)
15000.00	15084.66	90.00	266.68	7097.00	217.35	61.67	261.26	894.59	461.87	2.07	SF(Lo)
15100.00	15184.66	90.00	266.68	7097.00	220.13	62.39	261.26	894.60	456.39	2.04	SF(Lo)
15200.00	15284.66	90.00	266.68	7097.00	222.90	63.12	261.26	894.62	450.92	2.02	SF(Lo)
15300.00	15384.66	90.00	266.68	7097.00	225.68	63.85	261.26	894.63	445.44	1.99	SF(Lo)
15400.00	15484.66	90.00	266.68	7097.00	228.46	64.57	261.26	894.64	439.96	1.97	SF(Lo)
15473.86	15558.52	90.00	266.68	7097.00	230.51	65.11	261.26	894.65	435.91	1.95	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	180.03	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	1098.06	1.96	123.78	1098.04	2.34	2.33	179.24	100.78	95.37	18.61	
1200.00	1195.90	3.92	123.78	1195.74	2.52	2.51	176.95	103.78	97.95	17.82	
1300.00	1293.27	5.87	123.78	1292.76	2.72	2.70	173.45	109.11	102.88	17.50	

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
1400.00	1389.98	7.80	123.78	1388.77	2.94	2.89	169.14	117.19	110.53	17.60	
1500.00	1485.79	9.72	123.78	1483.47	3.20	3.08	164.46	128.39	121.30	18.10	
1600.00	1580.53	11.61	123.78	1576.56	3.48	3.27	159.82	143.01	135.47	18.96	
1700.00	1673.99	13.48	123.78	1667.79	3.81	3.46	155.48	161.20	153.24	20.26	
1800.00	1766.01	15.32	123.78	1756.92	4.18	3.66	151.61	182.97	174.58	21.80	
1900.00	1856.45	17.13	123.78	1843.74	4.60	3.86	148.23	208.26	199.45	23.66	
2000.00	1950.38	17.55	123.78	1933.33	5.09	4.10	145.27	236.14	226.92	25.60	
2100.00	2046.11	17.55	123.78	2024.61	5.61	4.34	57.70	263.70	254.00	27.20	
2200.00	2142.55	17.55	123.78	2116.56	6.15	4.60	56.17	289.65	279.49	28.53	
2300.00	2239.58	17.55	123.78	2209.06	6.71	4.86	55.40	313.76	303.11	29.47	
2400.00	2337.07	17.55	123.78	2302.02	7.29	5.13	55.22	335.95	324.80	30.12	
2500.00	2434.92	17.55	123.78	2395.31	7.88	5.40	55.52	356.22	344.54	30.50	
2600.00	2532.99	17.55	123.78	2488.82	8.47	5.68	56.23	374.64	362.37	30.53	
2700.00	2631.18	17.55	123.78	2582.43	9.07	5.95	57.31	391.30	378.36	30.24	
2800.00	2729.36	17.55	123.78	2676.04	9.68	6.24	58.71	406.37	392.70	29.72	
2900.00	2827.41	17.55	123.78	2769.53	10.29	6.52	60.43	420.06	405.59	29.03	
3000.00	2925.27	17.55	123.78	2862.84	10.90	6.80	62.48	432.93	417.53	28.12	
3100.00	3023.12	17.55	123.78	2956.13	11.51	7.09	64.53	446.27	429.86	27.20	
3200.00	3120.97	17.55	123.78	3049.42	12.13	7.38	66.46	460.15	442.71	26.40	
3300.00	3218.82	17.55	123.78	3142.71	12.74	7.67	68.27	474.52	456.04	25.67	
3400.00	3316.66	17.55	123.78	3236.00	13.36	7.96	69.98	489.34	469.74	24.97	
3500.00	3414.51	17.55	123.78	3329.29	13.98	8.25	71.59	504.57	483.80	24.30	
3600.00	3512.36	17.55	123.78	3422.58	14.60	8.54	73.11	520.17	498.22	23.70	
3700.00	3610.20	17.55	123.78	3515.87	15.23	8.83	74.53	536.11	512.98	23.17	
3800.00	3708.05	17.55	123.78	3609.17	15.85	9.12	75.88	552.37	528.04	22.71	
3900.00	3805.90	17.55	123.78	3702.46	16.47	9.42	77.15	568.90	543.35	22.26	
4000.00	3903.74	17.55	123.78	3795.75	17.10	9.71	78.35	585.70	558.89	21.85	
4100.00	4001.59	17.55	123.78	3889.04	17.73	10.01	79.48	602.74	574.67	21.47	
4200.00	4099.44	17.55	123.78	3982.33	18.35	10.30	80.55	620.00	590.67	21.14	
4300.00	4197.28	17.55	123.78	4075.62	18.98	10.60	81.56	637.46	606.88	20.85	
4400.00	4295.13	17.55	123.78	4168.91	19.61	10.90	82.52	655.10	623.25	20.57	
4500.00	4392.98	17.55	123.78	4262.20	20.24	11.19	83.43	672.91	639.78	20.31	
4600.00	4490.82	17.55	123.78	4355.50	20.86	11.49	84.29	690.88	656.47	20.08	
4700.00	4588.67	17.55	123.78	4448.79	21.49	11.79	85.11	709.00	673.31	19.87	
4800.00	4686.52	17.55	123.78	4542.08	22.12	12.09	85.89	727.25	690.28	19.67	
4900.00	4784.36	17.55	123.78	4635.37	22.75	12.38	86.63	745.62	707.38	19.50	
5000.00	4882.21	17.55	123.78	4728.66	23.38	12.68	87.34	764.11	724.57	19.32	
5100.00	4980.06	17.55	123.78	4821.95	24.01	12.98	88.01	782.71	741.86	19.16	
5200.00	5077.90	17.55	123.78	4915.24	24.64	13.28	88.65	801.41	759.26	19.01	
5300.00	5175.75	17.55	123.78	5008.53	25.27	13.58	89.26	820.20	776.75	18.88	
5400.00	5273.60	17.55	123.78	5101.83	25.90	13.88	89.85	839.08	794.33	18.75	
5500.00	5371.45	17.55	123.78	5195.12	26.53	14.18	90.41	858.04	811.99	18.63	
5600.00	5469.29	17.55	123.78	5288.41	27.16	14.48	90.94	877.08	829.74	18.53	
5700.00	5567.14	17.55	123.78	5381.70	27.80	14.78	91.45	896.18	847.55	18.43	
5800.00	5664.99	17.55	123.78	5474.99	28.43	15.08	91.94	915.35	865.44	18.34	
5900.00	5762.83	17.55	123.78	5568.28	29.06	15.38	92.41	934.59	883.38	18.25	
6000.00	5860.68	17.55	123.78	5661.57	29.69	15.68	92.87	953.88	901.39	18.17	
6100.00	5958.53	17.55	123.78	5754.86	30.32	15.98	93.30	973.23	919.46	18.10	
6200.00	6056.37	17.55	123.78	5848.16	30.95	16.28	93.72	992.63	937.58	18.03	
6300.00	6154.44	17.55	123.78	5941.65	31.59	16.58	96.40	1011.79	955.68	18.03	
6400.00	6251.76	17.55	123.78	6034.45	32.22	16.88	104.50	1030.20	973.44	18.15	
6500.00	6341.46	12.99	141.44	6120.90	32.55	17.10	268.07	1048.22	991.32	18.42	
6600.00	6432.70	10.52	175.84	6210.33	32.55	17.15	272.38	1066.13	1009.40	18.79	
6700.00	6526.69	12.70	212.36	6302.51	32.25	17.00	273.51	1083.66	1027.33	19.24	
6800.00	6623.90	18.19	233.46	6396.25	31.65	16.61	274.02	1100.50	1044.73	19.73	
6900.00	6724.80	25.17	244.58	6489.99	30.82	15.95	274.23	1116.34	1061.15	20.23	
7000.00	6829.85	32.95	251.20	6581.77	29.83	14.99	274.26	1130.84	1076.16	20.68	
7100.00	6939.44	41.30	255.65	6669.09	28.81	13.72	274.12	1143.66	1089.33	21.05	

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
7200.00	7053.81	50.14	258.93	6748.86	27.92	12.20	273.85	1154.46	1100.17	21.27	
7300.00	7173.00	59.44	261.55	6817.52	27.37	10.64	273.48	1162.87	1108.18	21.27	
7400.00	7296.74	69.13	263.79	6871.15	27.30	9.52	273.02	1168.58	1112.93	21.00	
7500.00	7424.41	79.16	265.81	6905.99	27.85	9.54	272.50	1171.31	1114.05	20.46	
7600.00	7555.03	89.43	267.74	6918.96	28.92	11.02	272.06	1170.89	1111.51	19.72	
7700.00	7656.75	90.00	267.85	6919.00	29.96	11.60	272.06	1168.87	1107.24	18.97	
7800.00	7756.73	90.00	267.85	6919.00	31.17	12.11	272.06	1166.85	1102.67	18.18	
7900.00	7856.71	90.00	267.85	6919.00	32.58	12.64	272.07	1164.83	1097.81	17.38	
8000.00	7956.69	90.00	267.85	6919.00	34.15	13.21	272.07	1162.81	1092.44	16.52	
8100.00	8056.67	90.00	267.85	6919.00	35.88	13.79	272.07	1160.79	1086.91	15.71	
8200.00	8156.65	90.00	267.85	6919.00	37.73	14.38	272.08	1158.77	1081.21	14.94	
8300.00	8256.63	90.00	267.85	6919.00	39.70	14.99	272.08	1156.75	1075.12	14.17	
8400.00	8356.61	90.00	267.85	6919.00	41.76	15.62	272.08	1154.73	1068.88	13.45	
8500.00	8456.59	90.00	267.85	6919.00	43.90	16.25	272.09	1152.71	1062.51	12.78	
8600.00	8556.57	90.00	267.85	6919.00	46.11	16.89	272.09	1150.68	1056.02	12.16	
8700.00	8656.55	90.00	267.85	6919.00	48.39	17.54	272.10	1148.66	1049.42	11.57	
8800.00	8756.53	90.00	267.85	6919.00	50.71	18.19	272.10	1146.64	1042.72	11.03	
8900.00	8856.51	90.00	267.85	6919.00	53.09	18.85	272.10	1144.62	1035.94	10.53	
9000.00	8956.49	90.00	267.85	6919.00	55.50	19.52	272.11	1142.60	1029.08	10.06	
9100.00	9056.46	90.00	267.85	6919.00	57.95	20.19	272.11	1140.58	1022.15	9.63	
9200.00	9156.44	90.00	267.85	6919.00	60.43	20.86	272.11	1138.56	1015.16	9.23	
9300.00	9256.42	90.00	267.85	6919.00	62.94	21.54	272.12	1136.54	1008.12	8.85	
9400.00	9356.40	90.00	267.85	6919.00	65.47	22.22	272.12	1134.52	1001.03	8.50	
9500.00	9456.38	90.00	267.85	6919.00	68.02	22.91	272.13	1132.50	993.90	8.17	
9600.00	9556.36	90.00	267.85	6919.00	70.59	23.59	272.13	1130.48	986.74	7.86	
9700.00	9656.34	90.00	267.85	6919.00	73.18	24.28	272.13	1128.46	979.54	7.58	
9800.00	9756.32	90.00	267.85	6919.00	75.78	24.98	272.14	1126.44	972.32	7.31	
9900.00	9856.30	90.00	267.85	6919.00	78.40	25.67	272.14	1124.42	965.06	7.06	
10000.00	9956.28	90.00	267.85	6919.00	81.03	26.37	272.14	1122.40	957.78	6.82	
10100.00	10056.26	90.00	267.85	6919.00	83.67	27.07	272.15	1120.38	950.48	6.59	
10200.00	10156.24	90.00	267.85	6919.00	86.32	27.77	272.15	1118.35	943.17	6.38	
10300.00	10256.22	90.00	267.85	6919.00	88.98	28.47	272.16	1116.33	935.83	6.18	
10400.00	10356.20	90.00	267.85	6919.00	91.65	29.17	272.16	1114.31	928.48	6.00	
10500.00	10456.18	90.00	267.85	6919.00	94.33	29.88	272.16	1112.29	921.11	5.82	
10600.00	10556.16	90.00	267.85	6919.00	97.01	30.58	272.17	1110.27	913.72	5.65	
10700.00	10656.14	90.00	267.85	6919.00	99.71	31.29	272.17	1108.25	906.33	5.49	
10800.00	10756.12	90.00	267.85	6919.00	102.40	32.00	272.18	1106.23	898.92	5.34	
10900.00	10856.10	90.00	267.85	6919.00	105.10	32.71	272.18	1104.21	891.51	5.19	
11000.00	10956.08	90.00	267.85	6919.00	107.81	33.42	272.18	1102.19	884.08	5.05	
11100.00	11056.06	90.00	267.85	6919.00	110.52	34.13	272.19	1100.17	876.64	4.92	
11200.00	11156.04	90.00	267.85	6919.00	113.24	34.84	272.19	1098.15	869.20	4.80	
11300.00	11256.02	90.00	267.85	6919.00	115.96	35.55	272.20	1096.13	861.74	4.68	
11400.00	11355.99	90.00	267.85	6919.00	118.69	36.27	272.20	1094.11	854.28	4.56	
11500.00	11455.97	90.00	267.85	6919.00	121.41	36.98	272.20	1092.09	846.81	4.45	
11600.00	11555.95	90.00	267.85	6919.00	124.15	37.70	272.21	1090.07	839.34	4.35	
11700.00	11655.93	90.00	267.85	6919.00	126.88	38.41	272.21	1088.05	831.86	4.25	
11800.00	11755.91	90.00	267.85	6919.00	129.62	39.13	272.22	1086.03	824.37	4.15	
11900.00	11855.89	90.00	267.85	6919.00	132.36	39.85	272.22	1084.01	816.88	4.06	
12000.00	11955.87	90.00	267.85	6919.00	135.10	40.56	272.23	1081.99	809.39	3.97	
12100.00	12055.85	90.00	267.85	6919.00	137.85	41.28	272.23	1079.96	801.88	3.88	
12200.00	12155.83	90.00	267.85	6919.00	140.59	42.00	272.23	1077.94	794.38	3.80	
12300.00	12255.81	90.00	267.85	6919.00	143.34	42.72	272.24	1075.92	786.87	3.72	
12400.00	12355.79	90.00	267.85	6919.00	146.09	43.44	272.24	1073.90	779.36	3.65	
12500.00	12455.77	90.00	267.85	6919.00	148.85	44.16	272.25	1071.88	771.84	3.57	
12600.00	12555.75	90.00	267.85	6919.00	151.60	44.88	272.25	1069.86	764.32	3.50	
12700.00	12655.73	90.00	267.85	6919.00	154.36	45.60	272.25	1067.84	756.79	3.43	
12800.00	12755.71	90.00	267.85	6919.00	157.12	46.32	272.26	1065.82	749.27	3.37	
12900.00	12855.69	90.00	267.85	6919.00	159.88	47.04	272.26	1063.80	741.74	3.30	

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
13000.00	12955.67	90.00	267.85	6919.00	162.64	47.77	272.27	1061.78	734.20	3.24	
13100.00	13055.65	90.00	267.85	6919.00	165.40	48.49	272.27	1059.76	726.67	3.18	
13200.00	13155.63	90.00	267.85	6919.00	168.17	49.21	272.28	1057.74	719.13	3.12	
13300.00	13255.61	90.00	267.85	6919.00	170.93	49.93	272.28	1055.72	711.59	3.07	
13400.00	13355.59	90.00	267.85	6919.00	173.70	50.66	272.28	1053.70	704.05	3.01	
13500.00	13455.57	90.00	267.85	6919.00	176.47	51.38	272.29	1051.68	696.50	2.96	
13600.00	13555.54	90.00	267.85	6919.00	179.24	52.10	272.29	1049.66	688.95	2.91	
13700.00	13655.52	90.00	267.85	6919.00	182.01	52.83	272.30	1047.64	681.40	2.86	
13800.00	13755.50	90.00	267.85	6919.00	184.78	53.55	272.30	1045.62	673.85	2.81	
13900.00	13855.48	90.00	267.85	6919.00	187.55	54.28	272.31	1043.60	666.30	2.77	
14000.00	13955.46	90.00	267.85	6919.00	190.33	55.00	272.31	1041.58	658.75	2.72	
14100.00	14055.44	90.00	267.85	6919.00	193.10	55.73	272.32	1039.56	651.19	2.68	
14200.00	14155.42	90.00	267.85	6919.00	195.87	56.45	272.32	1037.54	643.63	2.63	
14300.00	14255.40	90.00	267.85	6919.00	198.65	57.18	272.33	1035.52	636.07	2.59	
14400.00	14355.38	90.00	267.85	6919.00	201.43	57.90	272.33	1033.50	628.51	2.55	
14500.00	14455.36	90.00	267.85	6919.00	204.20	58.63	272.33	1031.48	620.95	2.51	
14600.00	14555.34	90.00	267.85	6919.00	206.98	59.35	272.34	1029.46	613.38	2.47	SF(Lo)
14700.00	14655.32	90.00	267.85	6919.00	209.76	60.08	272.34	1027.43	605.82	2.44	SF(Lo)
14800.00	14755.30	90.00	267.85	6919.00	212.54	60.81	272.35	1025.41	598.25	2.40	SF(Lo)
14900.00	14855.28	90.00	267.85	6919.00	215.32	61.53	272.35	1023.39	590.69	2.37	SF(Lo)
15000.00	14955.26	90.00	267.85	6919.00	218.10	62.26	272.36	1021.37	583.12	2.33	SF(Lo)
15100.00	15055.24	90.00	267.85	6919.00	220.88	62.99	272.36	1019.35	575.55	2.30	SF(Lo)
15200.00	15155.22	90.00	267.85	6919.00	223.66	63.71	272.37	1017.33	567.98	2.26	SF(Lo)
15300.00	15255.20	90.00	267.85	6919.00	226.44	64.44	272.37	1015.31	560.41	2.23	SF(Lo)
15400.00	15355.18	90.00	267.85	6919.00	229.22	65.17	272.38	1013.29	552.83	2.20	SF(Lo)
15473.86	15429.02	90.00	267.85	6919.00	231.28	65.70	272.38	1011.80	547.24	2.18	SF(Lo)
Secondary Well: Goetzel 13N-30C-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	0.00	0.00	0.00	179.95	119.86	119.12	163.45	
100.00	100.00	0.00	0.00	100.00	0.11	0.11	179.95	119.86	118.90	125.64	
200.00	200.00	0.00	0.00	200.00	0.34	0.34	179.95	119.86	118.45	85.40	
300.00	300.00	0.00	0.00	300.00	0.56	0.56	179.95	119.86	118.01	64.68	
400.00	400.00	0.00	0.00	400.00	0.79	0.79	179.95	119.86	117.56	52.05	
500.00	500.00	0.00	0.00	500.00	1.01	1.01	179.95	119.86	117.11	43.55	
600.00	600.00	0.00	0.00	600.00	1.24	1.24	179.95	119.86	116.66	37.44	
700.00	700.00	0.00	0.00	700.00	1.46	1.46	179.95	119.86	116.21	32.83	
800.00	800.00	0.00	0.00	800.00	1.69	1.69	179.95	119.86	115.76	29.23	
900.00	898.77	0.98	127.01	898.76	1.90	1.90	179.79	120.12	115.58	26.50	
1000.00	996.18	2.92	127.01	996.12	2.08	2.08	178.55	122.20	117.26	24.74	
1100.00	1093.27	4.87	127.01	1092.97	2.27	2.26	176.21	126.54	121.20	23.69	
1200.00	1189.79	6.80	127.01	1188.99	2.49	2.45	173.01	133.42	127.64	23.11	
1300.00	1285.55	8.71	127.01	1283.87	2.73	2.64	169.26	143.15	136.94	23.04	
1400.00	1380.33	10.61	127.01	1377.31	3.00	2.84	165.29	156.04	149.40	23.50	
1500.00	1473.96	12.48	127.01	1469.04	3.32	3.04	161.37	172.29	165.19	24.27	
1600.00	1566.25	14.32	127.01	1558.81	3.68	3.24	157.67	192.00	184.46	25.48	
1700.00	1657.05	16.14	127.01	1646.41	4.08	3.45	154.33	215.18	207.22	27.01	
1800.00	1748.30	17.39	127.01	1733.69	4.54	3.66	151.31	241.65	233.24	28.73	
1900.00	1843.73	17.39	127.01	1824.77	5.06	3.91	148.71	269.35	260.48	30.37	
2000.00	1939.16	17.39	127.01	1915.84	5.60	4.17	146.59	297.47	288.13	31.86	
2100.00	2034.96	17.39	127.01	2007.26	6.15	4.43	59.58	325.06	315.24	33.11	
2200.00	2131.42	17.39	127.01	2099.31	6.72	4.69	58.37	351.07	340.79	34.14	
2300.00	2228.42	17.39	127.01	2191.88	7.30	4.96	57.76	375.33	364.55	34.82	
2400.00	2325.84	17.39	127.01	2284.85	7.89	5.24	57.65	397.79	386.51	35.25	
2500.00	2423.57	17.39	127.01	2378.12	8.49	5.52	57.95	418.46	406.64	35.41	
2600.00	2521.48	17.39	127.01	2471.56	9.09	5.80	58.62	437.40	424.96	35.15	
2700.00	2619.46	17.39	127.01	2565.06	9.69	6.08	59.61	454.73	441.60	34.64	

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
2800.00	2717.38	17.39	127.01	2658.51	10.30	6.37	60.89	470.60	456.74	33.95	
2900.00	2815.14	17.39	127.01	2751.80	10.91	6.66	62.45	485.20	470.54	33.10	
3000.00	2912.67	17.39	127.01	2844.87	11.52	6.94	64.35	499.07	483.46	31.98	
3100.00	3010.18	17.39	127.01	2937.93	12.13	7.23	66.25	513.42	496.81	30.91	
3200.00	3107.69	17.39	127.01	3030.98	12.74	7.52	68.05	528.31	510.68	29.97	
3300.00	3205.20	17.39	127.01	3124.04	13.36	7.81	69.76	543.69	525.03	29.13	
3400.00	3302.71	17.39	127.01	3217.10	13.97	8.10	71.37	559.54	539.76	28.29	
3500.00	3400.22	17.39	127.01	3310.15	14.59	8.39	72.90	575.80	554.85	27.49	
3600.00	3497.73	17.39	127.01	3403.21	15.21	8.69	74.34	592.44	570.32	26.78	
3700.00	3595.24	17.39	127.01	3496.26	15.82	8.98	75.70	609.44	586.14	26.15	
3800.00	3692.75	17.39	127.01	3589.32	16.44	9.27	76.99	626.76	602.27	25.60	
3900.00	3790.26	17.39	127.01	3682.38	17.06	9.57	78.21	644.38	618.70	25.10	
4000.00	3887.77	17.39	127.01	3775.43	17.68	9.86	79.37	662.27	635.38	24.63	
4100.00	3985.28	17.39	127.01	3868.49	18.30	10.16	80.47	680.41	652.27	24.18	
4200.00	4082.79	17.39	127.01	3961.54	18.92	10.45	81.51	698.79	669.40	23.78	
4300.00	4180.30	17.39	127.01	4054.60	19.54	10.75	82.50	717.38	686.73	23.41	
4400.00	4277.81	17.39	127.01	4147.66	20.16	11.05	83.43	736.17	704.25	23.06	
4500.00	4375.33	17.39	127.01	4240.71	20.78	11.34	84.33	755.15	721.95	22.75	
4600.00	4472.84	17.39	127.01	4333.77	21.41	11.64	85.17	774.29	739.82	22.46	
4700.00	4570.35	17.39	127.01	4426.82	22.03	11.94	85.98	793.59	757.85	22.20	
4800.00	4667.86	17.39	127.01	4519.88	22.65	12.23	86.75	813.04	776.03	21.97	
4900.00	4765.37	17.39	127.01	4612.94	23.27	12.53	87.49	832.62	794.35	21.75	
5000.00	4862.88	17.39	127.01	4705.99	23.90	12.83	88.19	852.34	812.80	21.56	
5100.00	4960.39	17.39	127.01	4799.05	24.52	13.12	88.86	872.17	831.37	21.38	
5200.00	5057.90	17.39	127.01	4892.10	25.14	13.42	89.50	892.11	850.04	21.21	
5300.00	5155.41	17.39	127.01	4985.16	25.76	13.72	90.11	912.15	868.79	21.04	
5400.00	5252.92	17.39	127.01	5078.21	26.39	14.02	90.70	932.29	887.64	20.88	
5500.00	5350.43	17.39	127.01	5171.27	27.01	14.32	91.26	952.52	906.59	20.74	
5600.00	5447.94	17.39	127.01	5264.33	27.63	14.62	91.79	972.83	925.62	20.61	
5700.00	5545.45	17.39	127.01	5357.38	28.26	14.91	92.31	993.23	944.74	20.48	
5800.00	5642.96	17.39	127.01	5450.44	28.88	15.21	92.81	1013.70	963.93	20.37	
5900.00	5740.47	17.39	127.01	5543.49	29.51	15.51	93.28	1034.24	983.19	20.26	
6000.00	5837.98	17.39	127.01	5636.55	30.13	15.81	93.74	1054.84	1002.53	20.16	
6100.00	5935.49	17.39	127.01	5729.61	30.75	16.11	94.18	1075.51	1021.93	20.07	
6200.00	6033.00	17.39	127.01	5822.66	31.38	16.41	94.60	1096.24	1041.38	19.99	
6300.00	6130.81	17.39	127.01	5916.00	32.00	16.71	97.43	1116.63	1060.72	19.97	
6400.00	6228.05	17.39	127.01	6008.80	32.63	17.01	105.72	1136.01	1079.46	20.09	
6500.00	6322.85	17.39	127.01	6099.26	33.23	17.30	269.16	1154.44	1097.59	20.30	
6600.00	6406.54	13.78	142.67	6179.76	33.60	17.53	273.18	1172.66	1115.97	20.69	
6700.00	6491.27	11.57	172.30	6262.51	33.59	17.61	274.06	1191.25	1135.05	21.20	
6800.00	6579.67	13.12	205.06	6348.97	33.27	17.53	274.33	1210.00	1154.38	21.75	
6900.00	6672.64	17.85	226.92	6438.61	32.63	17.25	274.30	1228.65	1173.68	22.35	
7000.00	6771.24	24.36	239.47	6530.60	31.69	16.73	274.07	1246.90	1192.60	22.96	
7100.00	6876.72	31.99	247.19	6623.54	30.50	15.90	273.66	1264.36	1210.63	23.53	
7200.00	6990.46	40.54	252.47	6715.20	29.18	14.68	273.07	1280.60	1227.19	23.98	
7300.00	7113.89	50.01	256.42	6801.97	27.96	13.03	272.33	1295.05	1241.55	24.21	
7400.00	7248.16	60.43	259.63	6878.47	27.16	11.12	271.47	1307.10	1252.86	24.10	
7500.00	7393.74	71.79	262.43	6937.34	27.08	9.67	270.55	1316.01	1260.27	23.61	
7600.00	7549.95	84.02	265.06	6970.02	27.97	10.13	269.61	1321.08	1262.90	22.71	
7700.00	7679.30	90.00	266.28	6974.00	29.17	11.46	269.44	1322.31	1261.60	21.78	
7800.00	7779.30	90.00	266.28	6974.00	30.30	11.96	269.44	1323.01	1259.89	20.96	
7900.00	7879.30	90.00	266.28	6974.00	31.63	12.48	269.44	1323.72	1257.72	20.06	
8000.00	7979.30	90.00	266.28	6974.00	33.14	13.04	269.44	1324.43	1255.45	19.15	
8100.00	8079.29	90.00	266.28	6974.00	34.80	13.62	269.44	1325.13	1252.45	18.23	
8200.00	8179.29	90.00	266.28	6974.00	36.60	14.21	269.44	1325.84	1249.43	17.35	
8300.00	8279.29	90.00	266.28	6974.00	38.52	14.82	269.44	1326.55	1246.27	16.52	
8400.00	8379.29	90.00	266.28	6974.00	40.54	15.44	269.44	1327.25	1242.74	15.71	
8500.00	8479.28	90.00	266.28	6974.00	42.65	16.08	269.44	1327.96	1239.12	14.95	

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
8600.00	8579.28	90.00	266.28	6974.00	44.84	16.72	269.44	1328.67	1235.37	14.24	
8700.00	8679.28	90.00	266.28	6974.00	47.09	17.37	269.44	1329.37	1231.52	13.59	
8800.00	8779.28	90.00	266.28	6974.00	49.39	18.02	269.44	1330.08	1227.57	12.98	
8900.00	8879.27	90.00	266.28	6974.00	51.74	18.68	269.44	1330.79	1223.53	12.41	
9000.00	8979.27	90.00	266.28	6974.00	54.14	19.35	269.44	1331.49	1219.41	11.88	
9100.00	9079.27	90.00	266.28	6974.00	56.57	20.02	269.44	1332.20	1215.22	11.39	
9200.00	9179.27	90.00	266.28	6974.00	59.04	20.70	269.44	1332.91	1210.97	10.93	
9300.00	9279.26	90.00	266.28	6974.00	61.53	21.38	269.44	1333.61	1206.67	10.51	
9400.00	9379.26	90.00	266.28	6974.00	64.05	22.06	269.44	1334.32	1202.31	10.11	
9500.00	9479.26	90.00	266.28	6974.00	66.59	22.74	269.44	1335.03	1197.92	9.74	
9600.00	9579.26	90.00	266.28	6974.00	69.15	23.43	269.44	1335.73	1193.49	9.39	
9700.00	9679.25	90.00	266.28	6974.00	71.72	24.12	269.44	1336.44	1189.02	9.07	
9800.00	9779.25	90.00	266.28	6974.00	74.32	24.81	269.44	1337.15	1184.52	8.76	
9900.00	9879.25	90.00	266.28	6974.00	76.92	25.51	269.44	1337.85	1180.00	8.48	
10000.00	9979.25	90.00	266.28	6974.00	79.54	26.20	269.44	1338.56	1175.45	8.21	
10100.00	10079.24	90.00	266.28	6974.00	82.18	26.90	269.44	1339.27	1170.88	7.95	
10200.00	10179.24	90.00	266.28	6974.00	84.82	27.60	269.44	1339.97	1166.29	7.72	
10300.00	10279.24	90.00	266.28	6974.00	87.47	28.31	269.44	1340.68	1161.68	7.49	
10400.00	10379.24	90.00	266.28	6974.00	90.13	29.01	269.44	1341.39	1157.06	7.28	
10500.00	10479.23	90.00	266.28	6974.00	92.80	29.71	269.44	1342.09	1152.42	7.08	
10600.00	10579.23	90.00	266.28	6974.00	95.48	30.42	269.45	1342.80	1147.77	6.88	
10700.00	10679.23	90.00	266.28	6974.00	98.16	31.13	269.45	1343.51	1143.10	6.70	
10800.00	10779.23	90.00	266.28	6974.00	100.85	31.84	269.45	1344.21	1138.42	6.53	
10900.00	10879.22	90.00	266.28	6974.00	103.54	32.54	269.45	1344.92	1133.73	6.37	
11000.00	10979.22	90.00	266.28	6974.00	106.24	33.26	269.45	1345.63	1129.03	6.21	
11100.00	11079.22	90.00	266.28	6974.00	108.95	33.97	269.45	1346.34	1124.33	6.06	
11200.00	11179.22	90.00	266.28	6974.00	111.66	34.68	269.45	1347.04	1119.61	5.92	
11300.00	11279.21	90.00	266.28	6974.00	114.37	35.39	269.45	1347.75	1114.88	5.79	
11400.00	11379.21	90.00	266.28	6974.00	117.09	36.11	269.45	1348.46	1110.15	5.66	
11500.00	11479.21	90.00	266.28	6974.00	119.81	36.82	269.45	1349.16	1105.41	5.53	
11600.00	11579.21	90.00	266.28	6974.00	122.53	37.54	269.45	1349.87	1100.66	5.42	
11700.00	11679.20	90.00	266.28	6974.00	125.26	38.25	269.45	1350.58	1095.91	5.30	
11800.00	11779.20	90.00	266.28	6974.00	127.99	38.97	269.45	1351.28	1091.15	5.19	
11900.00	11879.20	90.00	266.28	6974.00	130.72	39.68	269.45	1351.99	1086.39	5.09	
12000.00	11979.20	90.00	266.28	6974.00	133.46	40.40	269.45	1352.70	1081.62	4.99	
12100.00	12079.19	90.00	266.28	6974.00	136.20	41.12	269.45	1353.40	1076.85	4.89	
12200.00	12179.19	90.00	266.28	6974.00	138.94	41.84	269.45	1354.11	1072.07	4.80	
12300.00	12279.19	90.00	266.28	6974.00	141.68	42.56	269.45	1354.82	1067.29	4.71	
12400.00	12379.19	90.00	266.28	6974.00	144.43	43.28	269.45	1355.52	1062.50	4.63	
12500.00	12479.18	90.00	266.28	6974.00	147.17	44.00	269.45	1356.23	1057.71	4.54	
12600.00	12579.18	90.00	266.28	6974.00	149.92	44.72	269.45	1356.94	1052.92	4.46	
12700.00	12679.18	90.00	266.28	6974.00	152.67	45.44	269.45	1357.64	1048.12	4.39	
12800.00	12779.18	90.00	266.28	6974.00	155.42	46.16	269.45	1358.35	1043.33	4.31	
12900.00	12879.17	90.00	266.28	6974.00	158.18	46.88	269.45	1359.06	1038.52	4.24	
13000.00	12979.17	90.00	266.28	6974.00	160.93	47.60	269.45	1359.76	1033.72	4.17	
13100.00	13079.17	90.00	266.28	6974.00	163.69	48.33	269.45	1360.47	1028.91	4.10	
13200.00	13179.17	90.00	266.28	6974.00	166.45	49.05	269.45	1361.18	1024.10	4.04	
13300.00	13279.16	90.00	266.28	6974.00	169.20	49.77	269.45	1361.88	1019.29	3.98	
13400.00	13379.16	90.00	266.28	6974.00	171.96	50.50	269.45	1362.59	1014.47	3.91	
13500.00	13479.16	90.00	266.28	6974.00	174.73	51.22	269.45	1363.30	1009.65	3.85	
13600.00	13579.16	90.00	266.28	6974.00	177.49	51.94	269.45	1364.00	1004.83	3.80	
13700.00	13679.15	90.00	266.28	6974.00	180.25	52.67	269.45	1364.71	1000.01	3.74	
13800.00	13779.15	90.00	266.28	6974.00	183.01	53.39	269.45	1365.42	995.19	3.69	
13900.00	13879.15	90.00	266.28	6974.00	185.78	54.12	269.45	1366.12	990.36	3.64	
14000.00	13979.15	90.00	266.28	6974.00	188.55	54.84	269.46	1366.83	985.53	3.58	
14100.00	14079.14	90.00	266.28	6974.00	191.31	55.57	269.46	1367.54	980.70	3.54	
14200.00	14179.14	90.00	266.28	6974.00	194.08	56.29	269.46	1368.24	975.87	3.49	
14300.00	14279.14	90.00	266.28	6974.00	196.85	57.02	269.46	1368.95	971.04	3.44	

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
14400.00	14379.14	90.00	266.28	6974.00	199.62	57.74	269.46	1369.66	966.21	3.39	
14500.00	14479.13	90.00	266.28	6974.00	202.39	58.47	269.46	1370.36	961.37	3.35	
14600.00	14579.13	90.00	266.28	6974.00	205.16	59.19	269.46	1371.07	956.53	3.31	
14700.00	14679.13	90.00	266.28	6974.00	207.93	59.92	269.46	1371.78	951.70	3.27	
14800.00	14779.13	90.00	266.28	6974.00	210.70	60.65	269.46	1372.49	946.86	3.22	
14900.00	14879.12	90.00	266.28	6974.00	213.48	61.37	269.46	1373.19	942.02	3.18	
15000.00	14979.12	90.00	266.28	6974.00	216.25	62.10	269.46	1373.90	937.17	3.15	
15100.00	15079.12	90.00	266.28	6974.00	219.02	62.83	269.46	1374.61	932.33	3.11	
15200.00	15179.12	90.00	266.28	6974.00	221.80	63.55	269.46	1375.31	927.49	3.07	
15300.00	15279.11	90.00	266.28	6974.00	224.57	64.28	269.46	1376.02	922.64	3.04	
15400.00	15286.68	90.00	266.28	6974.00	224.78	64.33	269.46	1379.83	924.08	3.03	
15473.86	15286.68	90.00	266.28	6974.00	224.78	64.33	269.46	1387.25	931.40	3.04	

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	180.01	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	798.42	0.97	131.86	798.42	1.67	1.67	179.88	140.18	136.09	34.31	
900.00	895.14	2.90	131.86	895.08	1.85	1.85	178.90	142.46	137.97	31.74	
1000.00	991.54	4.83	131.86	991.25	2.04	2.03	177.05	147.14	142.25	30.08	
1100.00	1087.39	6.75	131.86	1086.61	2.26	2.22	174.49	154.43	149.12	29.06	
1200.00	1182.49	8.65	131.86	1180.84	2.50	2.41	171.47	164.57	158.81	28.59	
1300.00	1276.63	10.53	131.86	1273.67	2.78	2.61	168.21	177.78	171.58	28.67	
1400.00	1369.64	12.39	131.86	1364.82	3.10	2.81	164.92	194.23	187.58	29.23	
1500.00	1461.35	14.23	131.86	1454.06	3.46	3.02	161.76	214.02	206.92	30.14	
1600.00	1551.58	16.03	131.86	1541.17	3.87	3.23	158.83	237.16	229.63	31.50	
1700.00	1640.22	17.80	131.86	1625.96	4.33	3.44	156.18	263.61	255.64	33.09	
1800.00	1729.86	18.97	131.86	1710.93	4.84	3.67	153.76	293.15	284.75	34.89	
1900.00	1824.43	18.97	131.86	1800.36	5.42	3.93	151.63	323.74	314.87	36.49	
2000.00	1919.00	18.97	131.86	1889.79	6.01	4.19	149.86	354.68	345.31	37.86	
2100.00	2013.94	18.97	131.86	1979.57	6.62	4.46	148.01	385.12	375.27	39.11	
2200.00	2109.54	18.97	131.86	2069.98	7.24	4.74	146.16	414.15	403.82	40.09	
2300.00	2205.68	18.97	131.86	2160.90	7.87	5.02	144.31	441.62	430.81	40.82	
2400.00	2302.25	18.97	131.86	2252.22	8.51	5.31	142.46	467.48	456.14	41.20	
2500.00	2399.13	18.97	131.86	2343.84	9.16	5.60	140.61	491.74	479.83	41.28	
2600.00	2496.20	18.97	131.86	2435.64	9.81	5.89	138.76	514.45	501.91	41.04	
2700.00	2593.34	18.97	131.86	2527.51	10.46	6.19	136.91	535.71	522.49	40.52	
2800.00	2690.44	18.97	131.86	2619.33	11.12	6.49	135.06	555.65	541.68	39.76	
2900.00	2787.38	18.97	131.86	2711.00	11.78	6.78	133.21	574.45	559.63	38.77	
3000.00	2884.10	18.97	131.86	2802.47	12.44	7.08	131.36	592.58	576.83	37.65	
3100.00	2980.80	18.97	131.86	2893.92	13.10	7.38	129.51	611.13	594.39	36.50	
3200.00	3077.51	18.97	131.86	2985.37	13.76	7.68	127.66	630.17	612.40	35.46	
3300.00	3174.21	18.97	131.86	3076.82	14.42	7.98	125.81	649.65	630.81	34.49	
3400.00	3270.91	18.97	131.86	3168.27	15.08	8.29	123.96	669.53	649.60	33.59	
3500.00	3367.61	18.97	131.86	3259.72	15.74	8.59	122.11	689.78	668.70	32.73	
3600.00	3464.32	18.97	131.86	3351.17	16.41	8.89	120.26	710.36	688.11	31.93	
3700.00	3561.02	18.97	131.86	3442.63	17.07	9.20	118.41	731.25	707.82	31.21	
3800.00	3657.72	18.97	131.86	3534.08	17.74	9.50	116.56	752.43	727.81	30.56	
3900.00	3754.42	18.97	131.86	3625.53	18.40	9.81	114.71	773.86	748.05	29.98	
4000.00	3851.13	18.97	131.86	3716.98	19.07	10.11	112.86	795.53	768.52	29.45	
4100.00	3947.83	18.97	131.86	3808.43	19.73	10.42	111.01	817.42	789.21	28.98	

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
4200.00	4044.53	18.97	131.86	3899.88	20.40	10.72	81.21	839.51	810.10	28.54	
4300.00	4141.23	18.97	131.86	3991.33	21.07	11.03	82.05	861.79	831.13	28.11	
4400.00	4237.94	18.97	131.86	4082.78	21.74	11.34	82.86	884.24	852.31	27.69	
4500.00	4334.64	18.97	131.86	4174.23	22.40	11.64	83.62	906.85	873.64	27.31	
4600.00	4431.34	18.97	131.86	4265.68	23.07	11.95	84.35	929.61	895.12	26.96	
4700.00	4528.05	18.97	131.86	4357.13	23.74	12.26	85.04	952.50	916.74	26.63	
4800.00	4624.75	18.97	131.86	4448.58	24.41	12.57	85.70	975.52	938.48	26.34	
4900.00	4721.45	18.97	131.86	4540.03	25.08	12.87	86.33	998.66	960.34	26.06	
5000.00	4818.15	18.97	131.86	4631.48	25.75	13.18	86.94	1021.92	982.32	25.81	
5100.00	4914.86	18.97	131.86	4722.93	26.41	13.49	87.51	1045.27	1004.40	25.58	
5200.00	5011.56	18.97	131.86	4814.38	27.08	13.80	88.06	1068.72	1026.58	25.36	
5300.00	5108.26	18.97	131.86	4905.83	27.75	14.11	88.59	1092.26	1048.85	25.16	
5400.00	5204.96	18.97	131.86	4997.28	28.42	14.41	89.10	1115.89	1071.20	24.97	
5500.00	5301.67	18.97	131.86	5088.73	29.09	14.72	89.58	1139.60	1093.64	24.80	
5600.00	5398.37	18.97	131.86	5180.18	29.76	15.03	90.05	1163.38	1116.15	24.63	
5700.00	5495.07	18.97	131.86	5271.63	30.43	15.34	90.49	1187.23	1138.73	24.48	
5800.00	5591.77	18.97	131.86	5363.08	31.10	15.65	90.92	1211.14	1161.38	24.34	
5900.00	5688.48	18.97	131.86	5454.53	31.77	15.96	91.33	1235.12	1184.09	24.21	
6000.00	5785.18	18.97	131.86	5545.98	32.44	16.27	91.73	1259.16	1206.87	24.08	
6100.00	5881.88	18.97	131.86	5637.43	33.11	16.58	92.11	1283.25	1229.67	23.95	
6200.00	5978.58	18.97	131.86	5728.88	33.78	16.89	92.48	1307.39	1252.53	23.83	
6300.00	6075.56	18.97	131.86	5820.59	34.45	17.20	95.61	1331.42	1275.50	23.81	
6400.00	6171.93	18.97	131.86	5911.73	35.12	17.51	104.35	1354.86	1298.32	23.96	
6500.00	6258.51	16.18	143.86	5994.05	35.57	17.77	268.56	1377.80	1321.10	24.30	
6600.00	6342.91	13.83	168.57	6075.65	35.62	17.90	273.52	1400.66	1344.10	24.76	
6700.00	6429.70	14.57	196.99	6159.89	35.28	17.89	275.27	1423.15	1366.96	25.33	
6800.00	6519.46	18.26	219.06	6246.06	34.59	17.72	276.36	1444.92	1389.26	25.96	
6900.00	6612.83	23.80	233.15	6333.23	33.55	17.35	277.11	1465.61	1410.56	26.63	
7000.00	6710.53	30.46	242.21	6420.17	32.23	16.73	277.61	1484.87	1430.42	27.27	
7100.00	6813.31	37.90	248.45	6505.17	30.73	15.79	277.88	1502.32	1448.35	27.84	
7200.00	6921.91	46.02	253.09	6585.87	29.24	14.47	277.93	1517.59	1463.78	28.20	
7300.00	7036.96	54.78	256.79	6659.15	28.03	12.75	277.77	1530.28	1476.16	28.27	
7400.00	7158.89	64.16	259.92	6721.03	27.36	10.88	277.42	1539.99	1485.01	28.01	
7500.00	7287.67	74.12	262.72	6766.84	27.43	9.64	276.91	1546.33	1489.87	27.39	
7600.00	7422.86	84.62	265.38	6791.75	28.28	10.24	276.27	1549.05	1490.45	26.44	
7700.00	7542.39	90.00	266.70	6795.00	29.46	11.60	276.15	1549.35	1488.39	25.42	
7800.00	7642.39	90.00	266.70	6795.00	30.58	12.12	276.15	1549.34	1485.97	24.45	
7900.00	7742.39	90.00	266.70	6795.00	31.90	12.67	276.15	1549.33	1483.08	23.39	
8000.00	7842.39	90.00	266.70	6795.00	33.40	13.25	276.15	1549.31	1479.90	22.32	
8100.00	7942.39	90.00	266.70	6795.00	35.06	13.85	276.15	1549.30	1476.39	21.25	
8200.00	8042.39	90.00	266.70	6795.00	36.86	14.47	276.15	1549.29	1472.76	20.24	
8300.00	8142.39	90.00	266.70	6795.00	38.77	15.10	276.15	1549.28	1468.74	19.24	
8400.00	8242.39	90.00	266.70	6795.00	40.78	15.74	276.15	1549.27	1464.75	18.33	
8500.00	8342.39	90.00	266.70	6795.00	42.89	16.39	276.15	1549.26	1460.36	17.43	
8600.00	8442.39	90.00	266.70	6795.00	45.06	17.05	276.15	1549.25	1455.91	16.60	
8700.00	8542.39	90.00	266.70	6795.00	47.31	17.71	276.15	1549.23	1451.36	15.83	
8800.00	8642.39	90.00	266.70	6795.00	49.60	18.38	276.15	1549.22	1446.72	15.11	
8900.00	8742.39	90.00	266.70	6795.00	51.95	19.06	276.15	1549.21	1442.00	14.45	
9000.00	8842.39	90.00	266.70	6795.00	54.34	19.74	276.15	1549.20	1437.19	13.83	
9100.00	8942.39	90.00	266.70	6795.00	56.77	20.42	276.15	1549.19	1432.32	13.26	
9200.00	9042.39	90.00	266.70	6795.00	59.23	21.10	276.15	1549.18	1427.38	12.72	
9300.00	9142.39	90.00	266.70	6795.00	61.72	21.79	276.15	1549.16	1422.40	12.22	
9400.00	9242.39	90.00	266.70	6795.00	64.24	22.48	276.15	1549.15	1417.36	11.75	
9500.00	9342.39	90.00	266.70	6795.00	66.78	23.18	276.15	1549.14	1412.28	11.32	
9600.00	9442.39	90.00	266.70	6795.00	69.34	23.87	276.15	1549.13	1407.16	10.91	
9700.00	9542.39	90.00	266.70	6795.00	71.91	24.57	276.15	1549.12	1402.01	10.53	
9800.00	9642.39	90.00	266.70	6795.00	74.50	25.27	276.15	1549.11	1396.83	10.17	
9900.00	9742.39	90.00	266.70	6795.00	77.11	25.97	276.15	1549.10	1391.62	9.84	

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
10000.00	9842.39	90.00	266.70	6795.00	79.73	26.67	276.15	1549.08	1386.39	9.52	
10100.00	9942.39	90.00	266.70	6795.00	82.36	27.37	276.15	1549.07	1381.14	9.22	
10200.00	10042.39	90.00	266.70	6795.00	85.00	28.08	276.15	1549.06	1375.86	8.94	
10300.00	10142.39	90.00	266.70	6795.00	87.66	28.79	276.15	1549.05	1370.57	8.68	
10400.00	10242.39	90.00	266.70	6795.00	90.32	29.49	276.15	1549.04	1365.26	8.43	
10500.00	10342.39	90.00	266.70	6795.00	92.99	30.20	276.15	1549.03	1359.94	8.19	
10600.00	10442.39	90.00	266.70	6795.00	95.66	30.91	276.15	1549.01	1354.60	7.97	
10700.00	10542.39	90.00	266.70	6795.00	98.34	31.62	276.15	1549.00	1349.24	7.75	
10800.00	10642.39	90.00	266.70	6795.00	101.03	32.33	276.15	1548.99	1343.88	7.55	
10900.00	10742.39	90.00	266.70	6795.00	103.73	33.05	276.15	1548.98	1338.51	7.36	
11000.00	10842.39	90.00	266.70	6795.00	106.43	33.76	276.15	1548.97	1333.12	7.18	
11100.00	10942.39	90.00	266.70	6795.00	109.14	34.47	276.15	1548.96	1327.73	7.00	
11200.00	11042.39	90.00	266.70	6795.00	111.85	35.19	276.15	1548.95	1322.32	6.83	
11300.00	11142.39	90.00	266.70	6795.00	114.56	35.90	276.15	1548.93	1316.91	6.68	
11400.00	11242.39	90.00	266.70	6795.00	117.28	36.62	276.15	1548.92	1311.50	6.52	
11500.00	11342.39	90.00	266.70	6795.00	120.00	37.34	276.15	1548.91	1306.07	6.38	
11600.00	11442.39	90.00	266.70	6795.00	122.72	38.05	276.15	1548.90	1300.64	6.24	
11700.00	11542.39	90.00	266.70	6795.00	125.45	38.77	276.15	1548.89	1295.20	6.11	
11800.00	11642.39	90.00	266.70	6795.00	128.18	39.49	276.15	1548.88	1289.76	5.98	
11900.00	11742.39	90.00	266.70	6795.00	130.92	40.21	276.15	1548.87	1284.31	5.85	
12000.00	11842.39	90.00	266.70	6795.00	133.66	40.93	276.15	1548.85	1278.85	5.74	
12100.00	11942.39	90.00	266.70	6795.00	136.40	41.65	276.15	1548.84	1273.39	5.62	
12200.00	12042.39	90.00	266.70	6795.00	139.14	42.37	276.15	1548.83	1267.93	5.51	
12300.00	12142.39	90.00	266.70	6795.00	141.88	43.09	276.15	1548.82	1262.46	5.41	
12400.00	12242.39	90.00	266.70	6795.00	144.63	43.81	276.15	1548.81	1256.99	5.31	
12500.00	12342.39	90.00	266.70	6795.00	147.38	44.53	276.15	1548.80	1251.52	5.21	
12600.00	12442.39	90.00	266.70	6795.00	150.13	45.25	276.15	1548.78	1246.04	5.12	
12700.00	12542.39	90.00	266.70	6795.00	152.88	45.98	276.15	1548.77	1240.55	5.02	
12800.00	12642.39	90.00	266.70	6795.00	155.63	46.70	276.15	1548.76	1235.07	4.94	
12900.00	12742.39	90.00	266.70	6795.00	158.38	47.42	276.15	1548.75	1229.58	4.85	
13000.00	12842.39	90.00	266.70	6795.00	161.14	48.14	276.15	1548.74	1224.09	4.77	
13100.00	12942.39	90.00	266.70	6795.00	163.90	48.87	276.15	1548.73	1218.59	4.69	
13200.00	13042.39	90.00	266.70	6795.00	166.66	49.59	276.15	1548.72	1213.10	4.61	
13300.00	13142.39	90.00	266.70	6795.00	169.42	50.31	276.15	1548.70	1207.60	4.54	
13400.00	13242.39	90.00	266.70	6795.00	172.18	51.04	276.15	1548.69	1202.09	4.47	
13500.00	13342.39	90.00	266.70	6795.00	174.94	51.76	276.15	1548.68	1196.59	4.40	
13600.00	13442.39	90.00	266.70	6795.00	177.71	52.49	276.15	1548.67	1191.08	4.33	
13700.00	13542.39	90.00	266.70	6795.00	180.47	53.21	276.15	1548.66	1185.58	4.27	
13800.00	13642.39	90.00	266.70	6795.00	183.24	53.94	276.15	1548.65	1180.07	4.20	
13900.00	13742.39	90.00	266.70	6795.00	186.00	54.66	276.15	1548.63	1174.55	4.14	
14000.00	13842.39	90.00	266.70	6795.00	188.77	55.39	276.15	1548.62	1169.04	4.08	
14100.00	13942.39	90.00	266.70	6795.00	191.54	56.11	276.15	1548.61	1163.52	4.02	
14200.00	14042.39	90.00	266.70	6795.00	194.31	56.84	276.15	1548.60	1158.01	3.96	
14300.00	14142.39	90.00	266.70	6795.00	197.08	57.57	276.15	1548.59	1152.49	3.91	
14400.00	14242.39	90.00	266.70	6795.00	199.85	58.29	276.15	1548.58	1146.97	3.86	
14500.00	14342.39	90.00	266.70	6795.00	202.62	59.02	276.15	1548.57	1141.45	3.80	
14600.00	14442.39	90.00	266.70	6795.00	205.40	59.75	276.15	1548.55	1135.92	3.75	
14700.00	14542.39	90.00	266.70	6795.00	208.17	60.47	276.15	1548.54	1130.40	3.70	
14800.00	14642.39	90.00	266.70	6795.00	210.94	61.20	276.15	1548.53	1124.87	3.66	
14900.00	14742.39	90.00	266.70	6795.00	213.72	61.93	276.15	1548.52	1119.34	3.61	
15000.00	14842.39	90.00	266.70	6795.00	216.49	62.65	276.15	1548.51	1113.82	3.56	
15100.00	14942.39	90.00	266.70	6795.00	219.27	63.38	276.15	1548.50	1108.29	3.52	
15200.00	15042.39	90.00	266.70	6795.00	222.04	64.11	276.15	1548.49	1102.76	3.47	
15300.00	15136.85	90.00	266.70	6795.00	224.67	64.80	276.15	1548.48	1097.36	3.43	
15400.00	15136.85	90.00	266.70	6795.00	224.67	64.80	276.15	1552.05	1098.63	3.42	
15473.86	15136.85	90.00	266.70	6795.00	224.67	64.80	276.15	1558.81	1104.90	3.43	

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	179.95	159.93	159.20	218.09	
100.00	100.00	0.00	0.00	100.00	0.11	0.11	179.95	159.93	158.98	167.65	
200.00	200.00	0.00	0.00	200.00	0.34	0.34	179.95	159.93	158.53	113.95	
300.00	300.00	0.00	0.00	300.00	0.56	0.56	179.95	159.93	158.08	86.31	
400.00	400.00	0.00	0.00	400.00	0.79	0.79	179.95	159.93	157.63	69.46	
500.00	500.00	0.00	0.00	500.00	1.01	1.01	179.95	159.93	157.18	58.11	
600.00	600.00	0.00	0.00	600.00	1.24	1.24	179.95	159.93	156.73	49.95	
700.00	695.97	1.92	138.18	695.95	1.43	1.43	179.57	161.19	157.57	44.57	
800.00	791.72	3.83	138.18	791.58	1.61	1.61	178.46	164.99	160.96	41.00	
900.00	887.04	5.74	138.18	886.56	1.82	1.79	176.74	171.44	167.01	38.66	
1000.00	981.73	7.63	138.18	980.61	2.04	1.99	174.55	180.72	175.85	37.12	
1100.00	1075.59	9.51	138.18	1073.41	2.31	2.18	172.06	192.96	187.65	36.31	
1200.00	1168.44	11.37	138.18	1164.71	2.61	2.38	169.44	208.31	202.55	36.17	
1300.00	1260.08	13.20	138.18	1254.26	2.96	2.59	166.83	226.86	220.65	36.54	
1400.00	1350.37	15.01	138.18	1341.82	3.35	2.80	164.33	248.64	241.99	37.38	
1500.00	1439.17	16.78	138.18	1427.22	3.79	3.02	162.00	273.64	266.55	38.55	
1600.00	1526.33	18.53	138.18	1510.27	4.28	3.23	159.88	301.81	294.29	40.09	
1700.00	1615.96	19.47	138.18	1594.91	4.83	3.47	157.90	332.80	324.81	41.65	
1800.00	1710.24	19.47	138.18	1683.79	5.43	3.74	156.14	364.54	356.09	43.13	
1900.00	1804.52	19.47	138.18	1772.68	6.05	4.02	154.66	396.54	387.58	44.29	
2000.00	1898.81	19.47	138.18	1861.57	6.68	4.29	153.40	428.74	419.28	45.34	
2100.00	1993.42	19.47	138.18	1950.77	7.31	4.58	152.14	460.94	450.52	46.33	
2200.00	2088.61	19.47	138.18	2040.52	7.96	4.87	150.88	493.14	480.51	47.11	
2300.00	2184.27	19.47	138.18	2130.71	8.61	5.16	149.62	525.34	509.11	47.53	
2400.00	2280.28	19.47	138.18	2221.23	9.27	5.45	148.36	557.54	536.31	47.72	
2500.00	2376.52	19.47	138.18	2311.97	9.94	5.75	147.10	589.74	562.12	47.66	
2600.00	2472.88	19.47	138.18	2402.82	10.60	6.05	145.84	621.94	586.59	47.32	
2700.00	2569.24	19.47	138.18	2493.67	11.27	6.35	144.58	654.14	609.78	46.61	
2800.00	2665.48	19.47	138.18	2584.40	11.94	6.66	143.32	686.34	631.84	45.67	
2900.00	2761.48	19.47	138.18	2674.91	12.61	6.96	142.06	718.54	652.93	44.58	
3000.00	2857.21	19.47	138.18	2765.17	13.28	7.26	140.80	750.74	673.48	43.39	
3100.00	2952.92	19.47	138.18	2855.40	13.95	7.57	139.54	782.94	694.39	42.15	
3200.00	3048.62	19.47	138.18	2945.64	14.62	7.87	138.28	815.14	715.73	40.92	
3300.00	3144.33	19.47	138.18	3035.87	15.29	8.17	137.02	847.34	737.50	39.81	
3400.00	3240.04	19.47	138.18	3126.10	15.96	8.48	135.76	879.54	759.66	38.81	
3500.00	3335.74	19.47	138.18	3216.34	16.63	8.79	134.50	911.74	782.18	37.91	
3600.00	3431.45	19.47	138.18	3306.57	17.30	9.09	133.24	943.94	805.02	37.07	
3700.00	3527.16	19.47	138.18	3396.80	17.97	9.40	131.98	976.14	828.13	36.26	
3800.00	3622.86	19.47	138.18	3487.04	18.65	9.71	130.72	1008.34	851.52	35.53	
3900.00	3718.57	19.47	138.18	3577.27	19.32	10.01	129.46	1040.54	875.17	34.87	
4000.00	3814.28	19.47	138.18	3667.50	19.99	10.32	128.20	1072.74	899.03	34.24	
4100.00	3909.98	19.47	138.18	3757.74	20.67	10.63	126.94	1104.94	923.11	33.67	
4200.00	4005.69	19.47	138.18	3847.97	21.34	10.94	125.68	1137.14	947.40	33.15	
4300.00	4101.40	19.47	138.18	3938.20	22.01	11.24	124.42	1169.34	971.87	32.68	
4400.00	4197.10	19.47	138.18	4028.44	22.69	11.55	123.16	1201.54	996.52	32.25	
4500.00	4292.81	19.47	138.18	4118.67	23.36	11.86	121.90	1233.74	1021.33	31.85	
4600.00	4388.51	19.47	138.18	4208.90	24.04	12.17	120.64	1265.94	1046.25	31.45	
4700.00	4484.22	19.47	138.18	4299.14	24.71	12.48	119.38	1298.14	1071.32	31.08	
4800.00	4579.93	19.47	138.18	4389.37	25.39	12.79	118.12	1330.34	1096.51	30.75	
4900.00	4675.63	19.47	138.18	4479.60	26.06	13.10	116.86	1362.54	1121.83	30.43	
5000.00	4771.34	19.47	138.18	4569.84	26.74	13.41	115.60	1394.74	1147.25	30.14	
5100.00	4867.05	19.47	138.18	4660.07	27.41	13.72	114.34	1426.94	1172.78	29.87	
5200.00	4962.75	19.47	138.18	4750.30	28.09	14.03	113.08	1459.14	1198.42	29.62	
5300.00	5058.46	19.47	138.18	4840.54	28.76	14.34	111.82	1491.34	1224.14	29.39	
5400.00	5154.17	19.47	138.18	4930.77	29.44	14.65	110.56	1523.54	1249.96	29.17	
5500.00	5249.87	19.47	138.18	5021.00	30.12	14.96	109.30	1555.74	1275.85	28.96	
5600.00	5345.58	19.47	138.18	5111.24	30.79	15.27	108.04	1587.94	1301.83	28.77	
5700.00	5441.29	19.47	138.18	5201.47	31.47	15.58	106.78	1620.14	1327.87	28.59	

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
5800.00	5536.99	19.47	138.18	5291.70	32.14	15.89	93.19	1403.36	1353.99	28.43	
5900.00	5632.70	19.47	138.18	5381.94	32.82	16.20	93.58	1430.79	1380.17	28.27	
6000.00	5728.41	19.47	138.18	5472.17	33.50	16.51	93.96	1458.27	1406.41	28.12	
6100.00	5824.11	19.47	138.18	5562.40	34.17	16.82	94.32	1485.82	1432.71	27.98	
6200.00	5919.82	19.47	138.18	5652.64	34.85	17.13	94.67	1513.42	1459.07	27.85	
6300.00	6015.92	19.47	138.18	5743.25	35.53	17.45	98.08	1540.65	1485.28	27.82	
6400.00	6111.71	19.47	138.18	5833.56	36.20	17.76	107.15	1566.72	1510.70	27.96	
6500.00	6205.32	19.47	138.18	5921.81	36.86	18.06	271.49	1591.41	1535.05	28.23	
6600.00	6294.93	19.47	138.18	6006.29	37.50	18.35	276.15	1614.84	1558.44	28.63	
6700.00	6378.79	19.47	138.18	6085.36	38.09	18.62	277.39	1637.43	1581.30	29.17	
6800.00	6455.27	19.47	138.18	6157.47	38.63	18.87	277.92	1659.75	1604.19	29.88	
6900.00	6522.89	19.47	138.18	6221.22	39.11	19.09	278.28	1682.49	1627.79	30.75	
7000.00	6589.92	17.08	150.51	6284.82	39.43	19.30	278.52	1706.21	1652.34	31.67	
7100.00	6663.54	15.43	170.83	6355.55	39.41	19.43	278.57	1730.84	1677.72	32.58	
7200.00	6746.77	16.09	195.40	6435.74	39.00	19.47	278.37	1756.20	1703.68	33.44	
7300.00	6846.79	19.96	218.30	6530.95	38.01	19.35	277.75	1781.95	1729.74	34.13	
7400.00	6979.27	27.85	236.05	6652.12	36.02	18.87	276.33	1807.46	1755.14	34.55	
7500.00	7183.10	42.23	249.73	6818.82	32.19	17.17	273.35	1831.13	1778.13	34.55	
7600.00	7554.85	70.34	261.69	7023.61	28.29	10.96	268.05	1848.07	1791.78	32.83	
7700.00	7863.41	90.00	267.32	7067.00	30.24	12.14	266.71	1849.64	1788.47	30.24	
7800.00	7963.41	90.00	267.32	7067.00	31.33	12.66	266.71	1848.55	1784.94	29.06	
7900.00	8063.40	90.00	267.32	7067.00	32.61	13.22	266.71	1847.45	1781.09	27.84	
8000.00	8163.40	90.00	267.32	7067.00	34.06	13.81	266.71	1846.36	1776.83	26.56	
8100.00	8263.39	90.00	267.32	7067.00	35.68	14.42	266.71	1845.26	1772.29	25.29	
8200.00	8363.38	90.00	267.32	7067.00	37.43	15.04	266.70	1844.17	1767.51	24.06	
8300.00	8463.38	90.00	267.32	7067.00	39.30	15.69	266.70	1843.07	1762.52	22.88	
8400.00	8563.37	90.00	267.32	7067.00	41.27	16.34	266.70	1841.98	1757.29	21.75	
8500.00	8663.37	90.00	267.32	7067.00	43.34	17.00	266.70	1840.88	1751.98	20.71	
8600.00	8763.36	90.00	267.32	7067.00	45.48	17.67	266.70	1839.79	1746.41	19.70	
8700.00	8863.35	90.00	267.32	7067.00	47.69	18.35	266.69	1838.69	1740.80	18.78	
8800.00	8963.35	90.00	267.32	7067.00	49.97	19.03	266.69	1837.60	1735.10	17.93	
8900.00	9063.34	90.00	267.32	7067.00	52.29	19.71	266.69	1836.50	1729.30	17.13	
9000.00	9163.34	90.00	267.32	7067.00	54.66	20.40	266.69	1835.41	1723.42	16.39	
9100.00	9263.33	90.00	267.32	7067.00	57.06	21.08	266.69	1834.31	1717.45	15.70	
9200.00	9363.32	90.00	267.32	7067.00	59.50	21.78	266.69	1833.22	1711.43	15.05	
9300.00	9463.32	90.00	267.32	7067.00	61.98	22.47	266.68	1832.12	1705.34	14.45	
9400.00	9563.31	90.00	267.32	7067.00	64.48	23.16	266.68	1831.03	1699.20	13.89	
9500.00	9663.31	90.00	267.32	7067.00	67.00	23.86	266.68	1829.93	1693.02	13.37	
9600.00	9763.30	90.00	267.32	7067.00	69.54	24.56	266.68	1828.83	1686.80	12.88	
9700.00	9863.29	90.00	267.32	7067.00	72.11	25.26	266.68	1827.74	1680.54	12.42	
9800.00	9963.29	90.00	267.32	7067.00	74.69	25.96	266.67	1826.64	1674.25	11.99	
9900.00	10063.28	90.00	267.32	7067.00	77.29	26.66	266.67	1825.55	1667.94	11.58	
10000.00	10163.28	90.00	267.32	7067.00	79.90	27.37	266.67	1824.45	1661.60	11.20	
10100.00	10263.27	90.00	267.32	7067.00	82.52	28.07	266.67	1823.36	1655.23	10.85	
10200.00	10363.26	90.00	267.32	7067.00	85.15	28.78	266.67	1822.26	1648.85	10.51	
10300.00	10463.26	90.00	267.32	7067.00	87.80	29.49	266.66	1821.17	1642.45	10.19	
10400.00	10563.25	90.00	267.32	7067.00	90.45	30.20	266.66	1820.07	1636.03	9.89	
10500.00	10663.25	90.00	267.32	7067.00	93.12	30.91	266.66	1818.98	1629.59	9.60	
10600.00	10763.24	90.00	267.32	7067.00	95.79	31.62	266.66	1817.88	1623.15	9.34	
10700.00	10863.23	90.00	267.32	7067.00	98.47	32.33	266.65	1816.79	1616.69	9.08	
10800.00	10963.23	90.00	267.32	7067.00	101.15	33.04	266.65	1815.69	1610.21	8.84	
10900.00	11063.22	90.00	267.32	7067.00	103.84	33.75	266.65	1814.60	1603.73	8.61	
11000.00	11163.22	90.00	267.32	7067.00	106.54	34.47	266.65	1813.50	1597.23	8.39	
11100.00	11263.21	90.00	267.32	7067.00	109.24	35.18	266.65	1812.41	1590.73	8.18	
11200.00	11363.20	90.00	267.32	7067.00	111.95	35.90	266.64	1811.31	1584.22	7.98	
11300.00	11463.20	90.00	267.32	7067.00	114.66	36.61	266.64	1810.22	1577.70	7.79	
11400.00	11563.19	90.00	267.32	7067.00	117.37	37.33	266.64	1809.12	1571.17	7.60	
11500.00	11663.18	90.00	267.32	7067.00	120.09	38.05	266.64	1808.03	1564.64	7.43	

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
11600.00	11763.18	90.00	267.32	7067.00	122.82	38.76	266.64	1806.93	1558.09	7.26	
11700.00	11863.17	90.00	267.32	7067.00	125.54	39.48	266.63	1805.84	1551.55	7.10	
11800.00	11963.17	90.00	267.32	7067.00	128.27	40.20	266.63	1804.74	1544.99	6.95	
11900.00	12063.16	90.00	267.32	7067.00	131.01	40.92	266.63	1803.65	1538.44	6.80	
12000.00	12163.15	90.00	267.32	7067.00	133.74	41.64	266.63	1802.55	1531.87	6.66	
12100.00	12263.15	90.00	267.32	7067.00	136.48	42.36	266.63	1801.46	1525.30	6.52	
12200.00	12363.14	90.00	267.32	7067.00	139.22	43.08	266.62	1800.36	1518.73	6.39	
12300.00	12463.14	90.00	267.32	7067.00	141.97	43.80	266.62	1799.27	1512.15	6.27	
12400.00	12563.13	90.00	267.32	7067.00	144.71	44.52	266.62	1798.17	1505.57	6.15	
12500.00	12663.12	90.00	267.32	7067.00	147.46	45.24	266.62	1797.08	1498.99	6.03	
12600.00	12763.12	90.00	267.32	7067.00	150.21	45.96	266.62	1795.98	1492.40	5.92	
12700.00	12863.11	90.00	267.32	7067.00	152.96	46.68	266.61	1794.89	1485.81	5.81	
12800.00	12963.11	90.00	267.32	7067.00	155.71	47.40	266.61	1793.79	1479.21	5.70	
12900.00	13063.10	90.00	267.32	7067.00	158.47	48.13	266.61	1792.70	1472.61	5.60	
13000.00	13163.09	90.00	267.32	7067.00	161.22	48.85	266.61	1791.60	1466.01	5.50	
13100.00	13263.09	90.00	267.32	7067.00	163.98	49.57	266.61	1790.51	1459.41	5.41	
13200.00	13363.08	90.00	267.32	7067.00	166.74	50.30	266.60	1789.41	1452.80	5.32	
13300.00	13463.08	90.00	267.32	7067.00	169.50	51.02	266.60	1788.32	1446.19	5.23	
13400.00	13563.07	90.00	267.32	7067.00	172.26	51.74	266.60	1787.22	1439.58	5.14	
13500.00	13663.06	90.00	267.32	7067.00	175.03	52.47	266.60	1786.13	1432.97	5.06	
13600.00	13763.06	90.00	267.32	7067.00	177.79	53.19	266.60	1785.03	1426.35	4.98	
13700.00	13863.05	90.00	267.32	7067.00	180.56	53.92	266.59	1783.94	1419.73	4.90	
13800.00	13963.05	90.00	267.32	7067.00	183.33	54.64	266.59	1782.84	1413.12	4.82	
13900.00	14063.04	90.00	267.32	7067.00	186.09	55.37	266.59	1781.75	1406.49	4.75	
14000.00	14163.03	90.00	267.32	7067.00	188.86	56.09	266.59	1780.65	1399.87	4.68	
14100.00	14263.03	90.00	267.32	7067.00	191.63	56.82	266.58	1779.56	1393.25	4.61	
14200.00	14363.02	90.00	267.32	7067.00	194.40	57.54	266.58	1778.46	1386.62	4.54	
14300.00	14463.02	90.00	267.32	7067.00	197.17	58.27	266.58	1777.37	1379.99	4.47	
14400.00	14563.01	90.00	267.32	7067.00	199.95	58.99	266.58	1776.27	1373.36	4.41	
14500.00	14663.00	90.00	267.32	7067.00	202.72	59.72	266.58	1775.18	1366.73	4.35	
14600.00	14763.00	90.00	267.32	7067.00	205.49	60.45	266.57	1774.08	1360.10	4.29	
14700.00	14862.99	90.00	267.32	7067.00	208.27	61.17	266.57	1772.99	1353.46	4.23	
14800.00	14962.99	90.00	267.32	7067.00	211.04	61.90	266.57	1771.89	1346.83	4.17	
14900.00	15062.98	90.00	267.32	7067.00	213.82	62.63	266.57	1770.80	1340.19	4.11	
15000.00	15162.97	90.00	267.32	7067.00	216.59	63.35	266.57	1769.70	1333.56	4.06	
15100.00	15262.97	90.00	267.32	7067.00	219.37	64.08	266.56	1768.61	1326.92	4.00	
15200.00	15362.96	90.00	267.32	7067.00	222.15	64.81	266.56	1767.51	1320.28	3.95	
15300.00	15462.96	90.00	267.32	7067.00	224.93	65.53	266.56	1766.42	1313.64	3.90	
15400.00	15562.95	90.00	267.32	7067.00	227.71	66.26	266.56	1765.32	1307.00	3.85	
15473.86	15636.80	90.00	267.32	7067.00	229.76	66.80	266.56	1764.51	1302.09	3.82	
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	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	497.67	0.95	141.02	497.67	0.99	0.99	179.91	180.29	177.56	65.92	
600.00	592.90	2.86	141.02	592.84	1.17	1.17	179.29	182.89	179.76	58.29	
700.00	687.81	4.76	141.02	687.54	1.37	1.36	178.10	188.16	184.60	52.94	
800.00	782.20	6.64	141.02	781.46	1.60	1.56	176.44	196.18	192.19	49.16	
900.00	875.88	8.52	141.02	874.31	1.85	1.76	174.44	207.10	202.67	46.79	
1000.00	968.65	10.37	141.02	965.82	2.15	1.96	172.24	221.03	216.14	45.24	
1100.00	1060.33	12.21	141.02	1055.72	2.49	2.17	169.96	238.05	232.71	44.55	
1200.00	1150.76	14.02	141.02	1143.79	2.87	2.39	167.71	258.24	252.44	44.57	
1300.00	1239.78	15.80	141.02	1229.82	3.30	2.61	165.55	281.59	275.34	45.06	

5D Anti-Collision Report

Secondary Well: Goetzel 34N-30C-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
1400.00	1327.27	17.55	141.02	1313.62	3.77	2.83	163.53	308.07	301.37	45.99	
1500.00	1413.10	19.26	141.02	1395.06	4.29	3.06	161.68	337.64	330.48	47.15	
1600.00	1500.25	20.44	141.02	1476.93	4.86	3.30	159.95	370.09	362.47	48.57	
1700.00	1593.95	20.44	141.02	1564.73	5.50	3.58	158.35	403.48	395.38	49.81	
1800.00	1687.65	20.44	141.02	1652.52	6.15	3.87	156.99	437.12	428.51	50.78	
1900.00	1781.35	20.44	141.02	1740.32	6.82	4.16	155.82	470.94	461.84	51.71	
2000.00	1875.05	20.44	141.02	1828.12	7.48	4.45	154.81	504.92	495.32	52.59	
2100.00	1969.07	20.44	141.02	1916.22	8.16	4.75	68.41	538.42	528.32	53.31	
2200.00	2063.66	20.44	141.02	2004.86	8.84	5.05	67.51	570.75	560.16	53.90	
2300.00	2158.71	20.44	141.02	2093.91	9.52	5.35	66.98	601.82	590.70	54.13	
2400.00	2254.09	20.44	141.02	2183.29	10.21	5.66	66.78	631.60	619.93	54.13	
2500.00	2349.69	20.44	141.02	2272.86	10.91	5.96	66.86	660.11	647.87	53.90	
2600.00	2445.39	20.44	141.02	2362.54	11.60	6.27	67.20	687.42	674.53	53.34	
2700.00	2541.08	20.44	141.02	2452.20	12.30	6.58	67.75	713.60	700.03	52.57	
2800.00	2636.64	20.44	141.02	2541.74	13.00	6.89	68.49	738.78	724.43	51.47	
2900.00	2731.96	20.44	141.02	2631.05	13.70	7.21	69.41	763.09	747.90	50.21	
3000.00	2826.99	20.44	141.02	2720.11	14.39	7.52	70.73	786.93	770.82	48.85	
3100.00	2922.01	20.44	141.02	2809.14	15.09	7.83	72.15	811.19	794.11	47.48	
3200.00	3017.02	20.44	141.02	2898.16	15.78	8.14	73.49	835.91	817.78	46.10	
3300.00	3112.03	20.44	141.02	2987.19	16.48	8.45	74.76	861.05	841.85	44.83	
3400.00	3207.04	20.44	141.02	3076.22	17.18	8.76	75.95	886.58	866.28	43.68	
3500.00	3302.06	20.44	141.02	3165.25	17.87	9.08	77.08	912.45	891.05	42.64	
3600.00	3397.07	20.44	141.02	3254.27	18.57	9.39	78.15	938.65	916.14	41.69	
3700.00	3492.08	20.44	141.02	3343.30	19.27	9.71	79.16	965.15	941.52	40.84	
3800.00	3587.09	20.44	141.02	3432.33	19.97	10.02	80.12	991.92	967.12	39.99	
3900.00	3682.10	20.44	141.02	3521.36	20.67	10.33	81.03	1018.94	992.96	39.21	
4000.00	3777.12	20.44	141.02	3610.38	21.37	10.65	81.89	1046.19	1019.00	38.48	
4100.00	3872.13	20.44	141.02	3699.41	22.06	10.96	82.71	1073.66	1045.26	37.81	
4200.00	3967.14	20.44	141.02	3788.44	22.76	11.28	83.49	1101.32	1071.71	37.19	
4300.00	4062.15	20.44	141.02	3877.47	23.46	11.59	84.24	1129.17	1098.34	36.63	
4400.00	4157.17	20.44	141.02	3966.50	24.16	11.91	84.95	1157.19	1125.15	36.11	
4500.00	4252.18	20.44	141.02	4055.52	24.86	12.22	85.62	1185.37	1152.10	35.64	
4600.00	4347.19	20.44	141.02	4144.55	25.56	12.54	86.26	1213.69	1179.21	35.20	
4700.00	4442.20	20.44	141.02	4233.58	26.26	12.85	86.88	1242.15	1206.45	34.79	
4800.00	4537.21	20.44	141.02	4322.61	26.96	13.17	87.47	1270.74	1233.82	34.42	
4900.00	4632.23	20.44	141.02	4411.63	27.66	13.49	88.03	1299.45	1261.29	34.05	
5000.00	4727.24	20.44	141.02	4500.66	28.36	13.80	88.57	1328.27	1288.86	33.70	
5100.00	4822.25	20.44	141.02	4589.69	29.06	14.12	89.08	1357.20	1316.53	33.38	
5200.00	4917.26	20.44	141.02	4678.72	29.76	14.43	89.58	1386.22	1344.30	33.07	
5300.00	5012.28	20.44	141.02	4767.75	30.46	14.75	90.05	1415.34	1372.17	32.79	
5400.00	5107.29	20.44	141.02	4856.77	31.16	15.07	90.51	1444.54	1400.12	32.52	
5500.00	5202.30	20.44	141.02	4945.80	31.86	15.38	90.95	1473.82	1428.15	32.27	
5600.00	5297.31	20.44	141.02	5034.83	32.56	15.70	91.37	1503.18	1456.26	32.04	
5700.00	5392.32	20.44	141.02	5123.86	33.26	16.02	91.77	1532.61	1484.44	31.81	
5800.00	5487.34	20.44	141.02	5212.88	33.96	16.33	92.16	1562.12	1512.69	31.61	
5900.00	5582.35	20.44	141.02	5301.91	34.66	16.65	92.54	1591.68	1541.00	31.41	
6000.00	5677.36	20.44	141.02	5390.94	35.37	16.97	92.90	1621.31	1569.38	31.22	
6100.00	5772.37	20.44	141.02	5479.97	36.07	17.28	93.25	1650.99	1597.81	31.05	
6200.00	5867.39	20.44	141.02	5569.00	36.77	17.60	93.59	1680.73	1626.30	30.88	
6300.00	5962.81	20.44	141.02	5658.41	37.47	17.92	97.21	1710.21	1654.76	30.84	
6400.00	6057.95	20.44	141.02	5747.56	38.17	18.24	106.55	1738.74	1682.65	31.00	
6500.00	6150.96	20.44	141.02	5834.71	38.86	18.55	271.21	1766.00	1709.59	31.30	
6600.00	6240.04	20.44	141.02	5918.17	39.52	18.84	276.23	1792.01	1735.59	31.76	
6700.00	6323.43	20.44	141.02	5996.32	40.13	19.12	277.83	1817.02	1760.90	32.38	
6800.00	6399.53	20.44	141.02	6067.62	40.69	19.38	278.71	1841.48	1785.94	33.16	
6900.00	6466.95	20.33	141.49	6130.79	41.19	19.60	279.38	1865.91	1811.09	34.04	
7000.00	6534.32	17.88	156.22	6194.48	41.42	19.79	279.89	1890.69	1836.70	35.02	
7100.00	6607.28	16.79	175.56	6264.20	41.32	19.93	280.20	1915.73	1862.47	35.97	

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
7200.00	6689.21	17.83	197.43	6342.49	40.80	19.98	280.25	1940.80	1888.13	36.84	
7300.00	6786.39	21.66	217.64	6434.05	39.65	19.89	279.89	1965.61	1913.09	37.43	
7400.00	6912.02	28.96	234.01	6547.67	37.47	19.50	278.84	1989.60	1936.94	37.78	
7500.00	7096.94	41.69	247.25	6698.46	33.45	18.14	276.54	2011.57	1958.21	37.70	
7600.00	7416.66	65.49	259.13	6887.29	28.63	12.57	272.10	2028.11	1972.14	36.24	
7700.00	7772.60	90.00	267.03	6955.00	30.19	12.15	270.17	2031.69	1970.28	33.08	
7800.00	7872.60	90.00	267.03	6955.00	31.25	12.68	270.17	2031.09	1967.31	31.84	
7900.00	7972.59	90.00	267.03	6955.00	32.50	13.25	270.17	2030.49	1963.98	30.53	
8000.00	8072.59	90.00	267.03	6955.00	33.92	13.86	270.17	2029.88	1960.27	29.16	
8100.00	8172.59	90.00	267.03	6955.00	35.50	14.49	270.17	2029.28	1956.21	27.77	
8200.00	8272.59	90.00	267.03	6955.00	37.23	15.13	270.17	2028.68	1951.98	26.45	
8300.00	8372.59	90.00	267.03	6955.00	39.07	15.80	270.17	2028.07	1947.51	25.17	
8400.00	8472.59	90.00	267.03	6955.00	41.02	16.47	270.17	2027.47	1942.71	23.92	
8500.00	8572.58	90.00	267.03	6955.00	43.06	17.15	270.17	2026.87	1937.91	22.78	
8600.00	8672.58	90.00	267.03	6955.00	45.19	17.84	270.17	2026.27	1932.84	21.69	
8700.00	8772.58	90.00	267.03	6955.00	47.38	18.53	270.17	2025.66	1927.73	20.68	
8800.00	8872.58	90.00	267.03	6955.00	49.64	19.22	270.17	2025.06	1922.55	19.76	
8900.00	8972.58	90.00	267.03	6955.00	51.95	19.92	270.17	2024.46	1917.27	18.89	
9000.00	9072.57	90.00	267.03	6955.00	54.30	20.61	270.17	2023.86	1911.89	18.08	
9100.00	9172.57	90.00	267.03	6955.00	56.70	21.31	270.17	2023.25	1906.43	17.32	
9200.00	9272.57	90.00	267.03	6955.00	59.13	22.02	270.17	2022.65	1900.89	16.61	
9300.00	9372.57	90.00	267.03	6955.00	61.59	22.72	270.17	2022.05	1895.29	15.95	
9400.00	9472.57	90.00	267.03	6955.00	64.08	23.42	270.17	2021.45	1889.64	15.34	
9500.00	9572.57	90.00	267.03	6955.00	66.60	24.13	270.17	2020.84	1883.95	14.76	
9600.00	9672.56	90.00	267.03	6955.00	69.13	24.83	270.17	2020.24	1878.21	14.22	
9700.00	9772.56	90.00	267.03	6955.00	71.69	25.54	270.17	2019.64	1872.44	13.72	
9800.00	9872.56	90.00	267.03	6955.00	74.27	26.25	270.17	2019.04	1866.64	13.25	
9900.00	9972.56	90.00	267.03	6955.00	76.86	26.96	270.17	2018.43	1860.81	12.81	
10000.00	10072.56	90.00	267.03	6955.00	79.46	27.67	270.17	2017.83	1854.96	12.39	
10100.00	10172.55	90.00	267.03	6955.00	82.08	28.38	270.17	2017.23	1849.08	12.00	
10200.00	10272.55	90.00	267.03	6955.00	84.71	29.09	270.17	2016.63	1843.18	11.63	
10300.00	10372.55	90.00	267.03	6955.00	87.35	29.80	270.17	2016.02	1837.27	11.28	
10400.00	10472.55	90.00	267.03	6955.00	90.00	30.51	270.17	2015.42	1831.34	10.95	
10500.00	10572.55	90.00	267.03	6955.00	92.66	31.22	270.17	2014.82	1825.39	10.64	
10600.00	10672.55	90.00	267.03	6955.00	95.33	31.94	270.17	2014.22	1819.42	10.34	
10700.00	10772.54	90.00	267.03	6955.00	98.00	32.65	270.17	2013.61	1813.45	10.06	
10800.00	10872.54	90.00	267.03	6955.00	100.69	33.37	270.17	2013.01	1807.46	9.79	
10900.00	10972.54	90.00	267.03	6955.00	103.37	34.08	270.17	2012.41	1801.46	9.54	
11000.00	11072.54	90.00	267.03	6955.00	106.07	34.80	270.17	2011.81	1795.46	9.30	
11100.00	11172.54	90.00	267.03	6955.00	108.77	35.52	270.17	2011.20	1789.44	9.07	
11200.00	11272.53	90.00	267.03	6955.00	111.47	36.23	270.17	2010.60	1783.41	8.85	
11300.00	11372.53	90.00	267.03	6955.00	114.18	36.95	270.17	2010.00	1777.38	8.64	
11400.00	11472.53	90.00	267.03	6955.00	116.89	37.67	270.17	2009.40	1771.33	8.44	
11500.00	11572.53	90.00	267.03	6955.00	119.61	38.39	270.17	2008.79	1765.28	8.25	
11600.00	11672.53	90.00	267.03	6955.00	122.33	39.11	270.17	2008.19	1759.23	8.07	
11700.00	11772.53	90.00	267.03	6955.00	125.06	39.83	270.17	2007.59	1753.17	7.89	
11800.00	11872.52	90.00	267.03	6955.00	127.78	40.55	270.17	2006.99	1747.10	7.72	
11900.00	11972.52	90.00	267.03	6955.00	130.51	41.27	270.17	2006.38	1741.02	7.56	
12000.00	12072.52	90.00	267.03	6955.00	133.25	41.99	270.17	2005.78	1734.95	7.41	
12100.00	12172.52	90.00	267.03	6955.00	135.98	42.71	270.17	2005.18	1728.86	7.26	
12200.00	12272.52	90.00	267.03	6955.00	138.72	43.43	270.17	2004.58	1722.77	7.11	
12300.00	12372.52	90.00	267.03	6955.00	141.46	44.15	270.17	2003.97	1716.68	6.98	
12400.00	12472.51	90.00	267.03	6955.00	144.21	44.87	270.17	2003.37	1710.59	6.84	
12500.00	12572.51	90.00	267.03	6955.00	146.95	45.60	270.17	2002.77	1704.49	6.71	
12600.00	12672.51	90.00	267.03	6955.00	149.70	46.32	270.17	2002.17	1698.38	6.59	
12700.00	12772.51	90.00	267.03	6955.00	152.45	47.04	270.17	2001.56	1692.27	6.47	
12800.00	12872.51	90.00	267.03	6955.00	155.20	47.77	270.17	2000.96	1686.16	6.36	
12900.00	12972.50	90.00	267.03	6955.00	157.96	48.49	270.17	2000.36	1680.05	6.25	

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
13000.00	13072.50	90.00	267.03	6955.00	160.71	49.21	270.17	1999.76	1673.93	6.14	
13100.00	13172.50	90.00	267.03	6955.00	163.47	49.94	270.17	1999.15	1667.81	6.03	
13200.00	13272.50	90.00	267.03	6955.00	166.22	50.66	270.17	1998.55	1661.69	5.93	
13300.00	13372.50	90.00	267.03	6955.00	168.98	51.39	270.17	1997.95	1655.57	5.84	
13400.00	13472.50	90.00	267.03	6955.00	171.74	52.11	270.17	1997.34	1649.44	5.74	
13500.00	13572.49	90.00	267.03	6955.00	174.51	52.84	270.17	1996.74	1643.31	5.65	
13600.00	13672.49	90.00	267.03	6955.00	177.27	53.56	270.17	1996.14	1637.18	5.56	
13700.00	13772.49	90.00	267.03	6955.00	180.03	54.29	270.17	1995.54	1631.05	5.47	
13800.00	13872.49	90.00	267.03	6955.00	182.80	55.01	270.17	1994.93	1624.91	5.39	
13900.00	13972.49	90.00	267.03	6955.00	185.56	55.74	270.17	1994.33	1618.78	5.31	
14000.00	14072.48	90.00	267.03	6955.00	188.33	56.46	270.17	1993.73	1612.64	5.23	
14100.00	14172.48	90.00	267.03	6955.00	191.10	57.19	270.17	1993.13	1606.50	5.16	
14200.00	14272.48	90.00	267.03	6955.00	193.87	57.92	270.17	1992.52	1600.35	5.08	
14300.00	14372.48	90.00	267.03	6955.00	196.64	58.64	270.17	1991.92	1594.21	5.01	
14400.00	14472.48	90.00	267.03	6955.00	199.41	59.37	270.17	1991.32	1588.06	4.94	
14500.00	14572.48	90.00	267.03	6955.00	202.18	60.09	270.17	1990.72	1581.92	4.87	
14600.00	14672.47	90.00	267.03	6955.00	204.95	60.82	270.17	1990.11	1575.77	4.80	
14700.00	14772.47	90.00	267.03	6955.00	207.73	61.55	270.17	1989.51	1569.62	4.74	
14800.00	14872.47	90.00	267.03	6955.00	210.50	62.28	270.17	1988.91	1563.47	4.67	
14900.00	14972.47	90.00	267.03	6955.00	213.27	63.00	270.17	1988.31	1557.32	4.61	
15000.00	15072.47	90.00	267.03	6955.00	216.05	63.73	270.17	1987.70	1551.16	4.55	
15100.00	15172.46	90.00	267.03	6955.00	218.82	64.46	270.17	1987.10	1545.01	4.49	
15200.00	15272.46	90.00	267.03	6955.00	221.60	65.19	270.17	1986.50	1538.85	4.44	
15300.00	15372.46	90.00	267.03	6955.00	224.38	65.91	270.17	1985.90	1532.69	4.38	
15400.00	15472.46	90.00	267.03	6955.00	227.15	66.64	270.17	1985.29	1526.54	4.33	
15473.86	15546.31	90.00	267.03	6955.00	229.21	67.18	270.17	1984.85	1521.99	4.29	

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	180.03	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	394.61	1.89	144.12	394.60	0.75	0.75	179.77	201.35	199.08	88.80	
500.00	489.02	3.78	144.12	488.88	0.94	0.94	179.01	205.39	202.70	76.42	
600.00	583.02	5.66	144.12	582.56	1.16	1.13	177.81	212.20	209.08	68.06	
700.00	676.41	7.53	144.12	675.33	1.41	1.34	176.26	221.86	218.30	62.33	
800.00	769.01	9.38	144.12	766.91	1.70	1.55	174.47	234.47	230.46	58.44	
900.00	860.62	11.21	144.12	857.05	2.03	1.76	172.55	250.11	245.63	55.89	
1000.00	951.09	13.02	144.12	945.50	2.40	1.98	170.58	268.83	263.89	54.41	
1100.00	1040.26	14.81	144.12	1032.05	2.82	2.20	168.64	290.66	285.25	53.77	
1200.00	1127.98	16.56	144.12	1116.50	3.28	2.43	166.79	315.58	309.71	53.82	
1300.00	1214.14	18.28	144.12	1198.70	3.78	2.66	165.05	343.55	337.23	54.35	
1400.00	1298.61	19.97	144.12	1278.51	4.32	2.89	163.45	374.52	367.74	55.18	
1500.00	1386.40	20.88	144.12	1360.66	4.93	3.15	161.92	408.14	400.88	56.20	
1600.00	1479.83	20.88	144.12	1447.96	5.59	3.44	160.52	442.40	434.64	57.01	
1700.00	1573.26	20.88	144.12	1535.25	6.26	3.74	159.31	476.86	468.58	57.60	
1800.00	1666.70	20.88	144.12	1622.55	6.94	4.03	158.27	511.48	502.70	58.22	
1900.00	1760.13	20.88	144.12	1709.84	7.63	4.33	157.36	546.24	536.95	58.83	
2000.00	1853.56	20.88	144.12	1797.13	8.31	4.64	156.56	581.10	571.32	59.40	
2100.00	1947.29	20.88	144.12	1884.71	9.00	4.94	70.28	615.51	605.23	59.85	
2200.00	2041.55	20.88	144.12	1972.78	9.70	5.25	69.43	648.84	638.05	60.11	
2300.00	2136.22	20.88	144.12	2061.23	10.40	5.56	68.92	681.01	669.69	60.14	
2400.00	2231.18	20.88	144.12	2149.95	11.10	5.87	68.70	712.01	700.15	60.00	
2500.00	2326.32	20.88	144.12	2238.84	11.81	6.18	68.73	741.86	729.39	59.48	
2600.00	2421.53	20.88	144.12	2327.79	12.52	6.50	68.99	770.60	757.49	58.77	
2700.00	2516.68	20.88	144.12	2416.70	13.23	6.81	69.45	798.33	784.54	57.89	

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
2800.00	2611.66	20.88	144.12	2505.44	13.93	7.13	70.09	825.16	810.60	56.70	
2900.00	2706.36	20.88	144.12	2593.92	14.64	7.45	70.88	851.20	835.81	55.29	
3000.00	2800.75	20.88	144.12	2682.11	15.34	7.76	72.09	876.83	860.49	53.67	
3100.00	2895.12	20.88	144.12	2770.28	16.05	8.07	73.43	902.88	885.56	52.15	
3200.00	2989.48	20.88	144.12	2858.45	16.75	8.39	74.69	929.37	911.05	50.74	
3300.00	3083.85	20.88	144.12	2946.61	17.46	8.71	75.88	956.27	936.89	49.33	
3400.00	3178.21	20.88	144.12	3034.78	18.16	9.02	77.01	983.55	963.08	48.04	
3500.00	3272.57	20.88	144.12	3122.94	18.87	9.34	78.08	1011.18	989.61	46.88	
3600.00	3366.94	20.88	144.12	3211.11	19.57	9.65	79.09	1039.13	1016.45	45.82	
3700.00	3461.30	20.88	144.12	3299.27	20.28	9.97	80.05	1067.37	1043.58	44.85	
3800.00	3555.66	20.88	144.12	3387.44	20.98	10.29	80.97	1095.89	1070.97	43.97	
3900.00	3650.03	20.88	144.12	3475.60	21.69	10.60	81.84	1124.65	1098.56	43.10	
4000.00	3744.39	20.88	144.12	3563.77	22.39	10.92	82.66	1153.65	1126.36	42.27	
4100.00	3838.76	20.88	144.12	3651.94	23.10	11.24	83.45	1182.87	1154.37	41.51	
4200.00	3933.12	20.88	144.12	3740.10	23.81	11.55	84.20	1212.28	1182.58	40.81	
4300.00	4027.48	20.88	144.12	3828.27	24.51	11.87	84.92	1241.88	1210.97	40.17	
4400.00	4121.85	20.88	144.12	3916.43	25.22	12.19	85.60	1271.65	1239.53	39.59	
4500.00	4216.21	20.88	144.12	4004.60	25.93	12.51	86.25	1301.58	1268.25	39.05	
4600.00	4310.58	20.88	144.12	4092.76	26.63	12.83	86.87	1331.66	1297.12	38.55	
4700.00	4404.94	20.88	144.12	4180.93	27.34	13.14	87.47	1361.89	1326.13	38.08	
4800.00	4499.30	20.88	144.12	4269.10	28.05	13.46	88.04	1392.24	1355.26	37.66	
4900.00	4593.67	20.88	144.12	4357.26	28.75	13.78	88.59	1422.71	1384.53	37.26	
5000.00	4688.03	20.88	144.12	4445.43	29.46	14.10	89.11	1453.30	1413.90	36.89	
5100.00	4782.39	20.88	144.12	4533.59	30.17	14.41	89.62	1484.00	1443.39	36.54	
5200.00	4876.76	20.88	144.12	4621.76	30.87	14.73	90.10	1514.80	1472.97	36.21	
5300.00	4971.12	20.88	144.12	4709.92	31.58	15.05	90.56	1545.69	1502.62	35.88	
5400.00	5065.49	20.88	144.12	4798.09	32.29	15.37	91.01	1576.67	1532.36	35.58	
5500.00	5159.85	20.88	144.12	4886.26	33.00	15.69	91.44	1607.74	1562.18	35.29	
5600.00	5254.21	20.88	144.12	4974.42	33.70	16.01	91.85	1638.89	1592.09	35.02	
5700.00	5348.58	20.88	144.12	5062.59	34.41	16.32	92.25	1670.11	1622.07	34.76	
5800.00	5442.94	20.88	144.12	5150.75	35.12	16.64	92.63	1701.40	1652.12	34.52	
5900.00	5537.30	20.88	144.12	5238.92	35.82	16.96	93.00	1732.76	1682.24	34.30	
6000.00	5631.67	20.88	144.12	5327.08	36.53	17.28	93.36	1764.19	1712.43	34.08	
6100.00	5726.03	20.88	144.12	5415.25	37.24	17.60	93.70	1795.67	1742.67	33.88	
6200.00	5820.40	20.88	144.12	5503.42	37.95	17.92	94.03	1827.21	1772.97	33.69	
6300.00	5915.24	20.88	144.12	5592.03	38.66	18.24	97.82	1858.45	1803.19	33.63	
6400.00	6009.95	20.88	144.12	5680.52	39.37	18.56	107.35	1888.59	1832.70	33.79	
6500.00	6102.70	20.88	144.12	5767.17	40.06	18.87	272.22	1917.26	1861.04	34.10	
6600.00	6191.67	20.88	144.12	5850.30	40.73	19.17	277.43	1944.39	1888.15	34.57	
6700.00	6275.13	20.88	144.12	5928.28	41.35	19.45	279.19	1970.15	1914.19	35.21	
6800.00	6351.47	20.88	144.12	5999.60	41.93	19.71	280.21	1994.88	1939.40	35.96	
6900.00	6419.19	20.88	144.12	6062.87	42.43	19.94	280.97	2019.04	1964.19	36.81	
7000.00	6476.97	20.88	144.12	6116.86	42.87	20.13	281.70	2043.10	1989.07	37.81	
7100.00	6523.70	20.88	144.12	6160.52	43.22	20.29	282.58	2067.49	2014.38	38.93	
7200.00	6558.45	20.88	144.12	6192.99	43.48	20.41	283.72	2092.49	2040.15	39.98	
7300.00	6580.57	20.88	144.12	6213.65	43.64	20.48	285.21	2118.20	2066.49	40.96	
7400.00	6589.60	20.88	144.12	6222.10	43.71	20.51	287.08	2144.50	2093.40	41.97	
7500.00	6585.39	20.88	144.12	6218.16	43.68	20.50	289.29	2171.03	2120.28	42.78	
7600.00	6568.85	20.88	144.12	6202.71	43.56	20.44	291.04	2197.53	2146.99	43.49	
7700.00	6549.66	20.88	144.12	6184.78	43.41	20.38	291.55	2227.09	2176.53	44.05	
7800.00	8001.66	90.00	266.98	7060.00	31.57	12.87	267.47	2244.42	2180.78	35.27	
7900.00	8101.66	90.00	266.98	7060.00	32.77	13.44	267.47	2243.92	2177.52	33.79	
8000.00	8201.66	90.00	266.98	7060.00	34.14	14.05	267.47	2243.42	2173.95	32.29	
8100.00	8301.66	90.00	266.98	7060.00	35.68	14.69	267.47	2242.92	2170.10	30.80	
8200.00	8401.66	90.00	266.98	7060.00	37.36	15.36	267.47	2242.42	2165.99	29.34	
8300.00	8501.66	90.00	266.98	7060.00	39.16	16.03	267.47	2241.92	2161.65	27.93	
8400.00	8601.65	90.00	266.98	7060.00	41.07	16.72	267.47	2241.42	2157.13	26.59	
8500.00	8701.65	90.00	266.98	7060.00	43.08	17.42	267.47	2240.92	2152.41	25.32	

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
8600.00	8801.65	90.00	266.98	7060.00	45.17	18.12	267.47	2240.42	2147.52	24.11	
8700.00	8901.65	90.00	266.98	7060.00	47.33	18.82	267.47	2239.93	2142.66	23.03	
8800.00	9001.65	90.00	266.98	7060.00	49.56	19.53	267.47	2239.43	2137.49	21.97	
8900.00	9101.65	90.00	266.98	7060.00	51.85	20.23	267.47	2238.93	2132.25	20.99	
9000.00	9201.65	90.00	266.98	7060.00	54.18	20.94	267.47	2238.43	2126.96	20.08	
9100.00	9301.65	90.00	266.98	7060.00	56.55	21.65	267.46	2237.93	2121.61	19.24	
9200.00	9401.64	90.00	266.98	7060.00	58.96	22.36	267.46	2237.43	2116.19	18.46	
9300.00	9501.64	90.00	266.98	7060.00	61.41	23.07	267.46	2236.93	2110.73	17.73	
9400.00	9601.64	90.00	266.98	7060.00	63.89	23.78	267.46	2236.43	2105.22	17.05	
9500.00	9701.64	90.00	266.98	7060.00	66.39	24.49	267.46	2235.93	2099.68	16.41	
9600.00	9801.64	90.00	266.98	7060.00	68.91	25.21	267.46	2235.43	2094.09	15.82	
9700.00	9901.64	90.00	266.98	7060.00	71.46	25.92	267.46	2234.93	2088.48	15.26	
9800.00	10001.64	90.00	266.98	7060.00	74.02	26.63	267.46	2234.43	2082.83	14.74	
9900.00	10101.64	90.00	266.98	7060.00	76.60	27.34	267.46	2233.93	2077.12	14.25	
10000.00	10201.63	90.00	266.98	7060.00	79.20	28.06	267.46	2233.43	2071.37	13.78	
10100.00	10301.63	90.00	266.98	7060.00	81.80	28.77	267.46	2232.93	2065.60	13.34	
10200.00	10401.63	90.00	266.98	7060.00	84.43	29.48	267.46	2232.44	2059.80	12.93	
10300.00	10501.63	90.00	266.98	7060.00	87.06	30.20	267.46	2231.94	2053.99	12.54	
10400.00	10601.63	90.00	266.98	7060.00	89.70	30.91	267.46	2231.44	2048.17	12.18	
10500.00	10701.63	90.00	266.98	7060.00	92.35	31.63	267.46	2230.94	2042.32	11.83	
10600.00	10801.63	90.00	266.98	7060.00	95.02	32.34	267.46	2230.44	2036.47	11.50	
10700.00	10901.63	90.00	266.98	7060.00	97.68	33.06	267.46	2229.94	2030.60	11.19	
10800.00	11001.62	90.00	266.98	7060.00	100.36	33.78	267.45	2229.44	2024.72	10.89	
10900.00	11101.62	90.00	266.98	7060.00	103.04	34.49	267.45	2228.94	2018.83	10.61	
11000.00	11201.62	90.00	266.98	7060.00	105.73	35.21	267.45	2228.44	2012.93	10.34	
11100.00	11301.62	90.00	266.98	7060.00	108.43	35.93	267.45	2227.94	2007.02	10.08	
11200.00	11401.62	90.00	266.98	7060.00	111.13	36.65	267.45	2227.44	2001.10	9.84	
11300.00	11501.62	90.00	266.98	7060.00	113.83	37.37	267.45	2226.94	1995.17	9.61	
11400.00	11601.62	90.00	266.98	7060.00	116.54	38.09	267.45	2226.44	1989.24	9.39	
11500.00	11701.62	90.00	266.98	7060.00	119.25	38.81	267.45	2225.94	1983.29	9.17	
11600.00	11801.62	90.00	266.98	7060.00	121.97	39.53	267.45	2225.44	1977.35	8.97	
11700.00	11901.61	90.00	266.98	7060.00	124.69	40.25	267.45	2224.94	1971.39	8.78	
11800.00	12001.61	90.00	266.98	7060.00	127.41	40.97	267.45	2224.45	1965.43	8.59	
11900.00	12101.61	90.00	266.98	7060.00	130.14	41.69	267.45	2223.95	1959.47	8.41	
12000.00	12201.61	90.00	266.98	7060.00	132.87	42.41	267.45	2223.45	1953.49	8.24	
12100.00	12301.61	90.00	266.98	7060.00	135.61	43.13	267.45	2222.95	1947.52	8.07	
12200.00	12401.61	90.00	266.98	7060.00	138.34	43.85	267.45	2222.45	1941.54	7.91	
12300.00	12501.61	90.00	266.98	7060.00	141.08	44.58	267.45	2221.95	1935.56	7.76	
12400.00	12601.61	90.00	266.98	7060.00	143.82	45.30	267.45	2221.45	1929.57	7.61	
12500.00	12701.60	90.00	266.98	7060.00	146.56	46.02	267.45	2220.95	1923.58	7.47	
12600.00	12801.60	90.00	266.98	7060.00	149.31	46.74	267.44	2220.45	1917.58	7.33	
12700.00	12901.60	90.00	266.98	7060.00	152.06	47.47	267.44	2219.95	1911.58	7.20	
12800.00	13001.60	90.00	266.98	7060.00	154.81	48.19	267.44	2219.45	1905.58	7.07	
12900.00	13101.60	90.00	266.98	7060.00	157.56	48.91	267.44	2218.95	1899.57	6.95	
13000.00	13201.60	90.00	266.98	7060.00	160.31	49.64	267.44	2218.45	1893.57	6.83	
13100.00	13301.60	90.00	266.98	7060.00	163.06	50.36	267.44	2217.95	1887.56	6.71	
13200.00	13401.60	90.00	266.98	7060.00	165.82	51.09	267.44	2217.45	1881.54	6.60	
13300.00	13501.59	90.00	266.98	7060.00	168.58	51.81	267.44	2216.95	1875.53	6.49	
13400.00	13601.59	90.00	266.98	7060.00	171.34	52.54	267.44	2216.46	1869.51	6.39	
13500.00	13701.59	90.00	266.98	7060.00	174.10	53.26	267.44	2215.96	1863.49	6.29	
13600.00	13801.59	90.00	266.98	7060.00	176.86	53.99	267.44	2215.46	1857.47	6.19	
13700.00	13901.59	90.00	266.98	7060.00	179.62	54.71	267.44	2214.96	1851.44	6.09	
13800.00	14001.59	90.00	266.98	7060.00	182.38	55.44	267.44	2214.46	1845.41	6.00	
13900.00	14101.59	90.00	266.98	7060.00	185.15	56.16	267.44	2213.96	1839.39	5.91	
14000.00	14201.59	90.00	266.98	7060.00	187.91	56.89	267.44	2213.46	1833.36	5.82	
14100.00	14301.58	90.00	266.98	7060.00	190.68	57.62	267.44	2212.96	1827.32	5.74	
14200.00	14401.58	90.00	266.98	7060.00	193.45	58.34	267.44	2212.46	1821.29	5.66	
14300.00	14501.58	90.00	266.98	7060.00	196.21	59.07	267.43	2211.96	1815.25	5.58	

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
14400.00	14601.58	90.00	266.98	7060.00	198.98	59.80	267.43	2211.46	1809.22	5.50	
14500.00	14701.58	90.00	266.98	7060.00	201.75	60.52	267.43	2210.96	1803.18	5.42	
14600.00	14801.58	90.00	266.98	7060.00	204.52	61.25	267.43	2210.46	1797.14	5.35	
14700.00	14901.58	90.00	266.98	7060.00	207.30	61.98	267.43	2209.96	1791.10	5.28	
14800.00	15001.58	90.00	266.98	7060.00	210.07	62.70	267.43	2209.46	1785.06	5.21	
14900.00	15101.57	90.00	266.98	7060.00	212.84	63.43	267.43	2208.96	1779.01	5.14	
15000.00	15201.57	90.00	266.98	7060.00	215.62	64.16	267.43	2208.47	1772.97	5.07	
15100.00	15301.57	90.00	266.98	7060.00	218.39	64.89	267.43	2207.97	1766.92	5.01	
15200.00	15401.57	90.00	266.98	7060.00	221.17	65.61	267.43	2207.47	1760.88	4.94	
15300.00	15501.57	90.00	266.98	7060.00	223.94	66.34	267.43	2206.97	1754.83	4.88	
15400.00	15601.57	90.00	266.98	7060.00	226.72	67.07	267.43	2206.47	1748.78	4.82	
15473.86	15675.42	90.00	266.98	7060.00	228.77	67.61	267.43	2206.10	1744.31	4.78	