

**5D Plan Report**

Synergy Resources

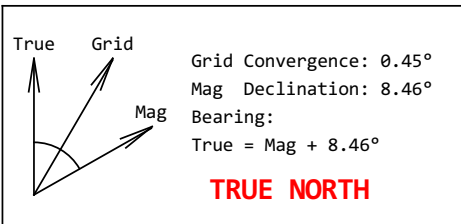
Field Name: *CO N - NAD 83*
Site Name: *Goetzel 25-29 Pad*
Well Name: *Goetzel 12N-30A-M*
Plan: *P1:V1*

5 December 2016





Goetzel 12N-30A-M
Weld County, CO
Precision 562



Plan Data for Goetzel 12N-30A-M

Plan Point Information:								
DogLeg	Severity	Unit:	%/100.00ft					
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
1450.00	0.00	0.00	0.00	1450.00	0.00	-0.00	0.00	0.00
2294.16	16.88	101.36	2282.00	-24.33	121.05	-118.44	2.00	101.4
6088.76	16.88	101.36	5913.05	-241.49	1201.48	-1175.53	0.00	0.0
7418.65	90.00	267.69	6829.00	-334.79	517.59	-486.08	8.00	165.7
15322.07	90.00	267.69	6829.00	-652.82	-7379.42	7408.24	0.00	0.0

Target Set Information:

Name: Goetzel 12N-30A-M

Position offsets from Slot centre

Name	TVD	+N/-S	+E/-W	Northing	Easting	Lat	Long
(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	(°)	(°)
LP 12N-30A-M	6829.00	-334.79	517.59	1410092.58	3194157.95	40.457009	-104.802276
PBHL 12N-30A-M	6829.00	-652.82	-7379.42	1409712.59	3186263.67	40.456133	-104.830654



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

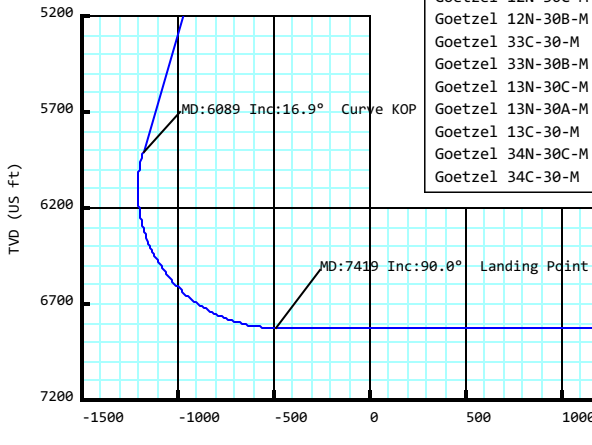
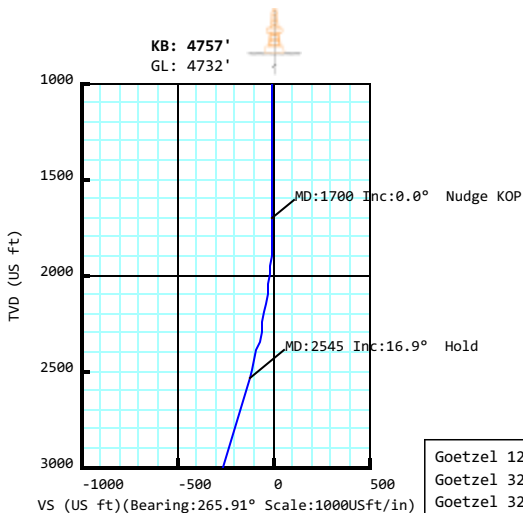
Plan Data for Goetzel 12N-30A-M

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

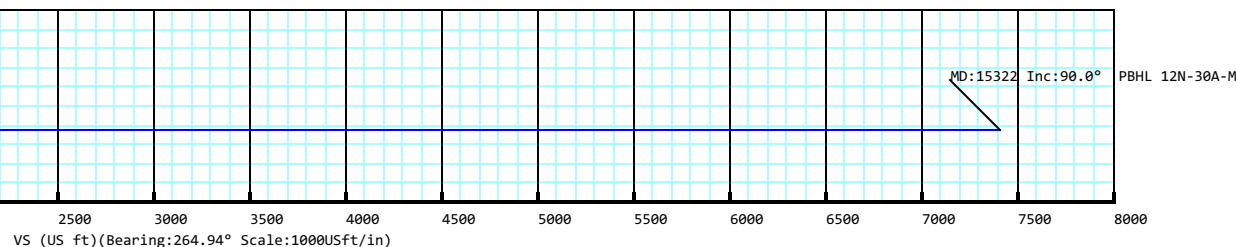
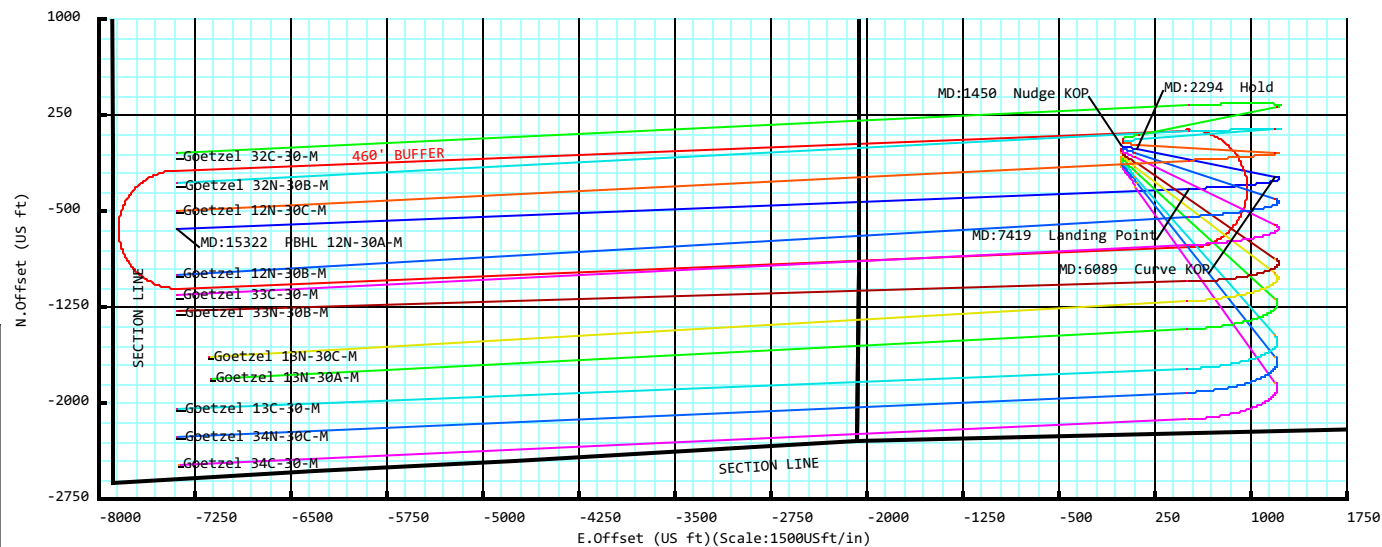
Site: Goetzel 25-29 Pad
Unit: USFeet
TVD Reference:
Company Name: Synergy Resources
Position: Northing: 1410483.05USft Latitude: 40.458092°
Easting: 3193637.83USft Longitude: -104.804134°
North Reference: True
Grid Convergence: 0.45°
Elevation Above VRD: 4732.00USft

Slot: Goetzel 12N-30A-M
Position:
Offset is from Site centre
+N/-S: -59.75USft Northing: 1410423.30USft Latitude: 40.457928°
+E/-W: -0.56USft Easting: 3193637.75USft Longitude: -104.804136°
Elevation Above VRD: 4732.00USft

Well: Goetzel 12N-30A-M
Type: Main-Well
File Number:
Plan Folder: P1
Plan: P1:V1
Vertical Section: Position offset of origin from Slot centre:
+N/-S: 0.00USft
+E/-W: 0.00USft
Azimuth: 264.94°
Magnetic Parameters:
Model: Field Strength: Declination: Dip: Date:
bggm2016 52524(nT) 8.46° 66.93° 2016-11-18



Goetzel 12N-30A-M	
Goetzel 32C-30-M	
Goetzel 32N-30B-M	
Goetzel 12N-30C-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 12N-30A-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 12N-30A-M	Position (Relative to Site Centre)			
	+N/-S: -59.75 US ft	Northing: 1410423.30 US ft		Latitude: 40.457928000
	+E/-W: -0.56 US ft	Easting: 3193637.75 US ft		Longitude: -104.804136000
	Slot TVD Reference: Ground Elevation			
	Elevation above MSL: 4732.00 US ft			
Comment:				
Well: Goetzel 12N-30A-M	Type:Main well		UWI:	Plan:P1:V1
	File Number:	Comment:		
	Closure Distance:7408.24US ft		Closure Azimuth:264.94°	
	Vertical Section: Position of Origin (Relative to Slot centre)			
	+N/-S: 0.00 US ft		+E/-W: 0.00 US ft	Az: 264.94°
	Magnetic Parameters:			
	Model: bggm2016	Field Strength: 52524.7nT	Declination: 8.46°	Dip: 66.93°

Drill floor: Plan: P1:V1

Rig Height (Drill Floor):	Elevation above MSL:	Inclination: 0.00°	Azimuth: 0.00°
25.00 US ft	4757.00 US ft		

Target set: Goetzel 12N-30A-M Comment:

Target Name:	Shape:	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	Comment
LP 12N-30A-M	Point	6829.00	-334.79	517.59	1410092.58	3194157.95	
PBHL 12N-30A-M	Point	6829.00	-652.82	-7379.42	1409712.59	3186263.67	

Wellpath created using minimum curvature.

Tie Point:

MD: 0.00 US ft	Inclination: 0.00°	Azimuth: 0.00°	TVD: 0.00 US ft	North Offset: 0.00 US ft	East Offset: -0.00 US ft
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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	
1450.00	0.00	0.00	1450.00	0.00	0.00	-0.00	0.00	0.00	0.00	Nudge KOP
2294.16	16.88	101.36	2282.00	-118.44	-24.33	121.05	2.00	0.00	2.00	Hold
6088.76	16.88	101.36	5913.05	-1175.53	-241.49	1201.48	0.00	0.00	0.00	Curve KOP
7418.65	90.00	267.69	6829.00	-486.08	-334.79	517.59	5.50	12.51	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
15322.07	90.00	267.69	6829.00	7408.24	-652.82	-7379.42	0.00	0.00	0.00	PBHL 12N-30A-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	
1450.00	0.00	0.00	1450.00	0.00	0.00	-0.00	0.00	0.00	0.00	Nudge KOP
1500.00	1.00	101.36	1500.00	-0.42	-0.09	0.43	2.00	0.00	2.00	
1600.00	3.00	101.36	1599.93	-3.77	-0.77	3.85	2.00	0.00	2.00	
1700.00	5.00	101.36	1699.68	-10.46	-2.15	10.69	2.00	-0.00	2.00	
1800.00	7.00	101.36	1799.13	-20.48	-4.21	20.94	2.00	-0.00	2.00	
1900.00	9.00	101.36	1898.15	-33.83	-6.95	34.58	2.00	-0.00	2.00	
2000.00	11.00	101.36	1996.63	-50.49	-10.37	51.60	2.00	-0.00	2.00	
2100.00	13.00	101.36	2094.44	-70.43	-14.47	71.98	2.00	-0.00	2.00	
2200.00	15.00	101.36	2191.46	-93.63	-19.24	95.70	2.00	0.00	2.00	
2294.16	16.88	101.36	2282.00	-118.44	-24.33	121.05	2.00	-0.00	2.00	Hold
2300.00	16.88	101.36	2287.58	-120.07	-24.67	122.72	0.00	0.00	0.00	
2400.00	16.88	101.36	2383.27	-147.92	-30.39	151.19	0.00	0.00	0.00	
2500.00	16.88	101.36	2478.96	-175.78	-36.11	179.66	0.00	0.00	0.00	
2600.00	16.88	101.36	2574.65	-203.64	-41.83	208.14	0.00	0.00	0.00	
2700.00	16.88	101.36	2670.34	-231.50	-47.56	236.61	0.00	0.00	0.00	
2800.00	16.88	101.36	2766.03	-259.36	-53.28	265.08	0.00	0.00	0.00	
2900.00	16.88	101.36	2861.72	-287.21	-59.00	293.55	0.00	0.00	0.00	
3000.00	16.88	101.36	2957.41	-315.07	-64.73	322.03	0.00	0.00	0.00	
3100.00	16.88	101.36	3053.10	-342.93	-70.45	350.50	0.00	0.00	0.00	
3200.00	16.88	101.36	3148.79	-370.79	-76.17	378.97	0.00	0.00	0.00	
3300.00	16.88	101.36	3244.48	-398.64	-81.89	407.44	0.00	0.00	0.00	
3400.00	16.88	101.36	3340.17	-426.50	-87.62	435.92	0.00	0.00	0.00	
3500.00	16.88	101.36	3435.86	-454.36	-93.34	464.39	0.00	0.00	0.00	
3600.00	16.88	101.36	3531.55	-482.22	-99.06	492.86	0.00	0.00	0.00	
3700.00	16.88	101.36	3627.24	-510.07	-104.79	521.34	0.00	0.00	0.00	
3800.00	16.88	101.36	3722.93	-537.93	-110.51	549.81	0.00	0.00	0.00	
3900.00	16.88	101.36	3818.62	-565.79	-116.23	578.28	0.00	0.00	0.00	
4000.00	16.88	101.36	3914.31	-593.65	-121.95	606.75	0.00	0.00	0.00	
4100.00	16.88	101.36	4010.00	-621.50	-127.68	635.23	0.00	0.00	0.00	
4200.00	16.88	101.36	4105.69	-649.36	-133.40	663.70	0.00	0.00	0.00	
4300.00	16.88	101.36	4201.38	-677.22	-139.12	692.17	0.00	0.00	0.00	
4400.00	16.88	101.36	4297.07	-705.08	-144.85	720.64	0.00	0.00	0.00	
4500.00	16.88	101.36	4392.76	-732.94	-150.57	749.12	0.00	0.00	0.00	
4600.00	16.88	101.36	4488.45	-760.79	-156.29	777.59	0.00	0.00	0.00	
4700.00	16.88	101.36	4584.14	-788.65	-162.01	806.06	0.00	0.00	0.00	
4800.00	16.88	101.36	4679.83	-816.51	-167.74	834.54	0.00	0.00	0.00	
4900.00	16.88	101.36	4775.52	-844.37	-173.46	863.01	0.00	0.00	0.00	
5000.00	16.88	101.36	4871.21	-872.22	-179.18	891.48	0.00	0.00	0.00	
5100.00	16.88	101.36	4966.90	-900.08	-184.91	919.95	0.00	0.00	0.00	

5D Plan Report

Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)										Comment
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N. Offset (US ft)	E. Offset (US ft)	B. Rate (°/100US ft)	T. Rate (°/100US ft)	DLS (°/100US ft)	
5200.00	16.88	101.36	5062.59	-927.94	-190.63	948.43	0.00	0.00	0.00	
5300.00	16.88	101.36	5158.28	-955.80	-196.35	976.90	0.00	0.00	0.00	
5400.00	16.88	101.36	5253.97	-983.65	-202.07	1005.37	0.00	0.00	0.00	
5500.00	16.88	101.36	5349.66	-1011.51	-207.80	1033.85	0.00	0.00	0.00	
5600.00	16.88	101.36	5445.35	-1039.37	-213.52	1062.32	0.00	0.00	0.00	
5700.00	16.88	101.36	5541.04	-1067.23	-219.24	1090.79	0.00	0.00	0.00	
5800.00	16.88	101.36	5636.73	-1095.09	-224.97	1119.26	0.00	0.00	0.00	
5900.00	16.88	101.36	5732.42	-1122.94	-230.69	1147.74	0.00	0.00	0.00	
6000.00	16.88	101.36	5828.11	-1150.80	-236.41	1176.21	0.00	0.00	0.00	
6088.76	16.88	101.36	5913.05	-1175.53	-241.49	1201.48	0.00	0.00	0.00	Curve KOP
6100.00	16.01	102.17	5923.82	-1178.57	-242.14	1204.60	-7.74	7.14	8.00	
6200.00	8.54	116.24	6021.49	-1198.12	-248.34	1224.77	-7.48	14.07	8.00	
6300.00	4.13	184.75	6120.97	-1203.86	-255.22	1231.14	-4.40	68.51	8.00	
6400.00	9.44	242.13	6220.32	-1195.67	-262.66	1223.58	5.30	57.38	8.00	
6500.00	17.00	254.12	6317.62	-1173.72	-270.50	1202.24	7.56	11.99	8.00	
6600.00	24.83	258.77	6410.97	-1138.44	-278.60	1167.53	7.83	4.65	8.00	
6700.00	32.74	261.29	6498.54	-1090.50	-286.80	1120.13	7.91	2.51	8.00	
6800.00	40.68	262.91	6578.65	-1030.85	-294.93	1060.97	7.94	1.62	8.00	
6900.00	48.64	264.07	6649.73	-960.64	-302.85	991.19	7.96	1.17	8.00	
7000.00	56.60	264.98	6710.39	-881.25	-310.38	912.15	7.97	0.91	8.00	
7100.00	64.58	265.74	6759.45	-794.21	-317.40	825.39	7.97	0.76	8.00	
7200.00	72.55	266.40	6795.97	-701.22	-323.76	732.60	7.98	0.66	8.00	
7300.00	80.53	267.01	6819.22	-604.09	-329.33	635.58	7.98	0.61	8.00	
7400.00	88.51	267.59	6828.76	-504.71	-334.02	536.23	7.98	0.58	8.00	
7418.65	90.00	267.69	6829.00	-486.08	-334.79	517.59	7.98	0.57	8.00	Landing Point
7500.00	90.00	267.69	6829.00	-404.83	-338.06	436.31	0.00	0.00	0.00	
7600.00	90.00	267.69	6829.00	-304.94	-342.08	336.40	0.00	0.00	0.00	
7700.00	90.00	267.69	6829.00	-205.06	-346.11	236.48	0.00	0.00	0.00	
7800.00	90.00	267.69	6829.00	-105.17	-350.13	136.56	0.00	0.00	0.00	
7900.00	90.00	267.69	6829.00	-5.29	-354.16	36.64	0.00	0.00	0.00	
8000.00	90.00	267.69	6829.00	94.60	-358.18	-63.28	0.00	0.00	0.00	
8100.00	90.00	267.69	6829.00	194.48	-362.20	-163.20	0.00	0.00	0.00	
8200.00	90.00	267.69	6829.00	294.37	-366.23	-263.12	0.00	0.00	0.00	
8300.00	90.00	267.69	6829.00	394.25	-370.25	-363.04	0.00	0.00	0.00	
8400.00	90.00	267.69	6829.00	494.14	-374.28	-462.96	0.00	0.00	0.00	
8500.00	90.00	267.69	6829.00	594.02	-378.30	-562.88	0.00	0.00	0.00	
8600.00	90.00	267.69	6829.00	693.91	-382.32	-662.79	0.00	0.00	0.00	
8700.00	90.00	267.69	6829.00	793.79	-386.35	-762.71	0.00	0.00	0.00	
8800.00	90.00	267.69	6829.00	893.68	-390.37	-862.63	0.00	0.00	0.00	
8900.00	90.00	267.69	6829.00	993.56	-394.40	-962.55	0.00	0.00	0.00	
9000.00	90.00	267.69	6829.00	1093.45	-398.42	-1062.47	0.00	0.00	0.00	
9100.00	90.00	267.69	6829.00	1193.33	-402.44	-1162.39	0.00	0.00	0.00	
9200.00	90.00	267.69	6829.00	1293.22	-406.47	-1262.31	0.00	0.00	0.00	
9300.00	90.00	267.69	6829.00	1393.10	-410.49	-1362.23	0.00	0.00	0.00	
9400.00	90.00	267.69	6829.00	1492.99	-414.52	-1462.15	0.00	0.00	0.00	
9500.00	90.00	267.69	6829.00	1592.87	-418.54	-1562.07	0.00	0.00	0.00	
9600.00	90.00	267.69	6829.00	1692.76	-422.56	-1661.98	0.00	0.00	0.00	
9700.00	90.00	267.69	6829.00	1792.64	-426.59	-1761.90	0.00	0.00	0.00	
9800.00	90.00	267.69	6829.00	1892.53	-430.61	-1861.82	0.00	0.00	0.00	
9900.00	90.00	267.69	6829.00	1992.41	-434.64	-1961.74	0.00	0.00	0.00	
10000.00	90.00	267.69	6829.00	2092.30	-438.66	-2061.66	0.00	0.00	0.00	
10100.00	90.00	267.69	6829.00	2192.18	-442.68	-2161.58	0.00	0.00	0.00	
10200.00	90.00	267.69	6829.00	2292.07	-446.71	-2261.50	0.00	0.00	0.00	
10300.00	90.00	267.69	6829.00	2391.95	-450.73	-2361.42	0.00	0.00	0.00	
10400.00	90.00	267.69	6829.00	2491.84	-454.76	-2461.34	0.00	0.00	0.00	
10500.00	90.00	267.69	6829.00	2591.72	-458.78	-2561.26	0.00	0.00	0.00	
10600.00	90.00	267.69	6829.00	2691.60	-462.80	-2661.17	0.00	0.00	0.00	
10700.00	90.00	267.69	6829.00	2791.49	-466.83	-2761.09	0.00	0.00	0.00	
10800.00	90.00	267.69	6829.00	2891.37	-470.85	-2861.01	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)	
10900.00	90.00	267.69	6829.00	2991.26	-474.88	-2960.93	0.00	0.00	0.00	
11000.00	90.00	267.69	6829.00	3091.14	-478.90	-3060.85	0.00	0.00	0.00	
11100.00	90.00	267.69	6829.00	3191.03	-482.92	-3160.77	0.00	0.00	0.00	
11200.00	90.00	267.69	6829.00	3290.91	-486.95	-3260.69	0.00	0.00	0.00	
11300.00	90.00	267.69	6829.00	3390.80	-490.97	-3360.61	0.00	0.00	0.00	
11400.00	90.00	267.69	6829.00	3490.68	-495.00	-3460.53	0.00	0.00	0.00	
11500.00	90.00	267.69	6829.00	3590.57	-499.02	-3560.45	0.00	0.00	0.00	
11600.00	90.00	267.69	6829.00	3690.45	-503.04	-3660.36	0.00	0.00	0.00	
11700.00	90.00	267.69	6829.00	3790.34	-507.07	-3760.28	0.00	0.00	0.00	
11800.00	90.00	267.69	6829.00	3890.22	-511.09	-3860.20	0.00	0.00	0.00	
11900.00	90.00	267.69	6829.00	3990.11	-515.12	-3960.12	0.00	0.00	0.00	
12000.00	90.00	267.69	6829.00	4089.99	-519.14	-4060.04	0.00	0.00	0.00	
12100.00	90.00	267.69	6829.00	4189.88	-523.16	-4159.96	0.00	0.00	0.00	
12200.00	90.00	267.69	6829.00	4289.76	-527.19	-4259.88	0.00	0.00	0.00	
12300.00	90.00	267.69	6829.00	4389.65	-531.21	-4359.80	0.00	0.00	0.00	
12400.00	90.00	267.69	6829.00	4489.53	-535.23	-4459.72	0.00	0.00	0.00	
12500.00	90.00	267.69	6829.00	4589.42	-539.26	-4559.64	0.00	0.00	0.00	
12600.00	90.00	267.69	6829.00	4689.30	-543.28	-4659.56	0.00	0.00	0.00	
12700.00	90.00	267.69	6829.00	4789.19	-547.31	-4759.47	0.00	0.00	0.00	
12800.00	90.00	267.69	6829.00	4889.07	-551.33	-4859.39	0.00	0.00	0.00	
12900.00	90.00	267.69	6829.00	4988.96	-555.35	-4959.31	0.00	0.00	0.00	
13000.00	90.00	267.69	6829.00	5088.84	-559.38	-5059.23	0.00	0.00	0.00	
13100.00	90.00	267.69	6829.00	5188.73	-563.40	-5159.15	0.00	0.00	0.00	
13200.00	90.00	267.69	6829.00	5288.61	-567.43	-5259.07	0.00	0.00	0.00	
13300.00	90.00	267.69	6829.00	5388.50	-571.45	-5358.99	0.00	0.00	0.00	
13400.00	90.00	267.69	6829.00	5488.38	-575.47	-5458.91	0.00	0.00	0.00	
13500.00	90.00	267.69	6829.00	5588.27	-579.50	-5558.83	0.00	0.00	0.00	
13600.00	90.00	267.69	6829.00	5688.15	-583.52	-5658.75	0.00	0.00	0.00	
13700.00	90.00	267.69	6829.00	5788.04	-587.55	-5758.66	0.00	0.00	0.00	
13800.00	90.00	267.69	6829.00	5887.92	-591.57	-5858.58	0.00	0.00	0.00	
13900.00	90.00	267.69	6829.00	5987.81	-595.59	-5958.50	0.00	0.00	0.00	
14000.00	90.00	267.69	6829.00	6087.69	-599.62	-6058.42	0.00	0.00	0.00	
14100.00	90.00	267.69	6829.00	6187.58	-603.64	-6158.34	0.00	0.00	0.00	
14200.00	90.00	267.69	6829.00	6287.46	-607.67	-6258.26	0.00	0.00	0.00	
14300.00	90.00	267.69	6829.00	6387.35	-611.69	-6358.18	0.00	0.00	0.00	
14400.00	90.00	267.69	6829.00	6487.23	-615.71	-6458.10	0.00	0.00	0.00	
14500.00	90.00	267.69	6829.00	6587.12	-619.74	-6558.02	0.00	0.00	0.00	
14600.00	90.00	267.69	6829.00	6687.00	-623.76	-6657.94	0.00	0.00	0.00	
14700.00	90.00	267.69	6829.00	6786.89	-627.79	-6757.85	0.00	0.00	0.00	
14800.00	90.00	267.69	6829.00	6886.77	-631.81	-6857.77	0.00	0.00	0.00	
14900.00	90.00	267.69	6829.00	6986.66	-635.83	-6957.69	0.00	0.00	0.00	
15000.00	90.00	267.69	6829.00	7086.54	-639.86	-7057.61	0.00	0.00	0.00	
15100.00	90.00	267.69	6829.00	7186.43	-643.88	-7157.53	0.00	0.00	0.00	
15200.00	90.00	267.69	6829.00	7286.31	-647.91	-7257.45	0.00	0.00	0.00	
15300.00	90.00	267.69	6829.00	7386.20	-651.93	-7357.37	0.00	0.00	0.00	
15322.07	90.00	267.69	6829.00	7408.24	-652.82	-7379.42	0.00	0.00	0.00	PBHL 12N-30A-M



Synergy Resources

Field Name: *CO N - NAD 83*
Site Name: *Goetzel 25-29 Pad*
Well Name: *Goetzel 12N-30A-M*

5 December 2016

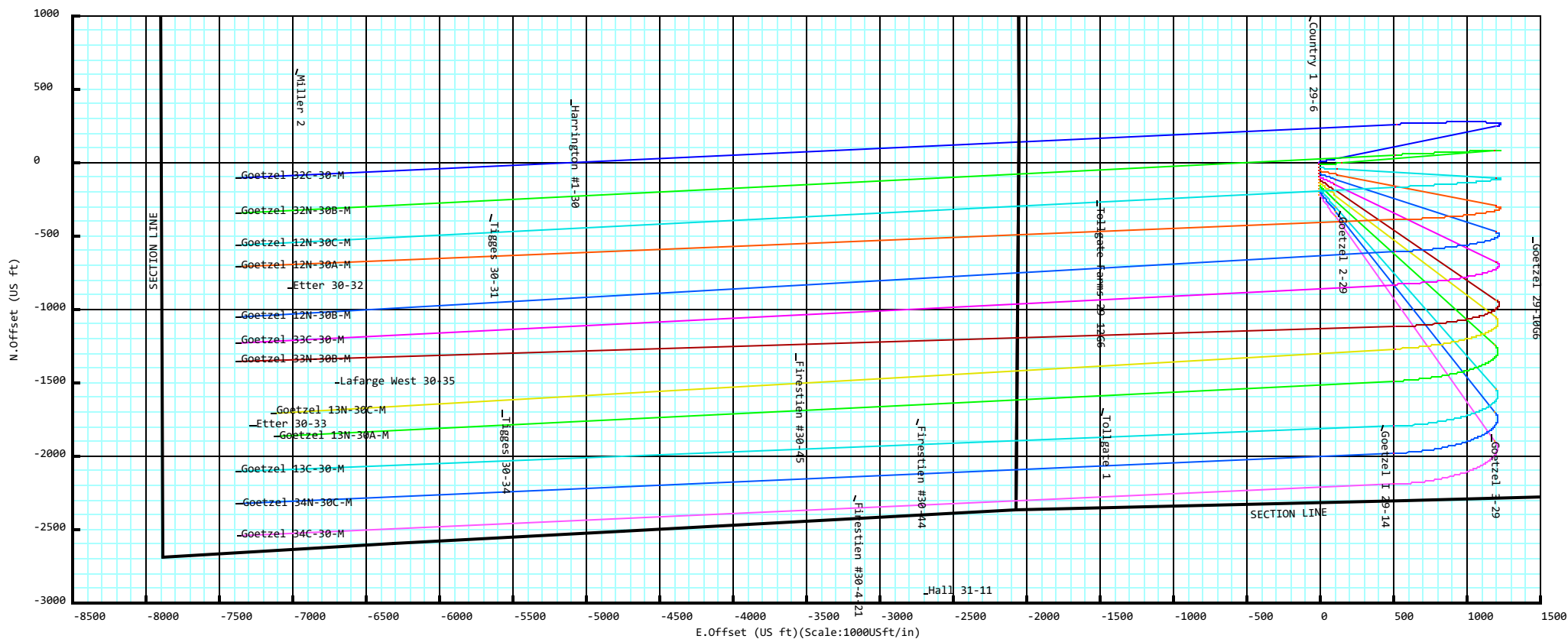




Goetzel Pad
Weld County, CO
Precision 562

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

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



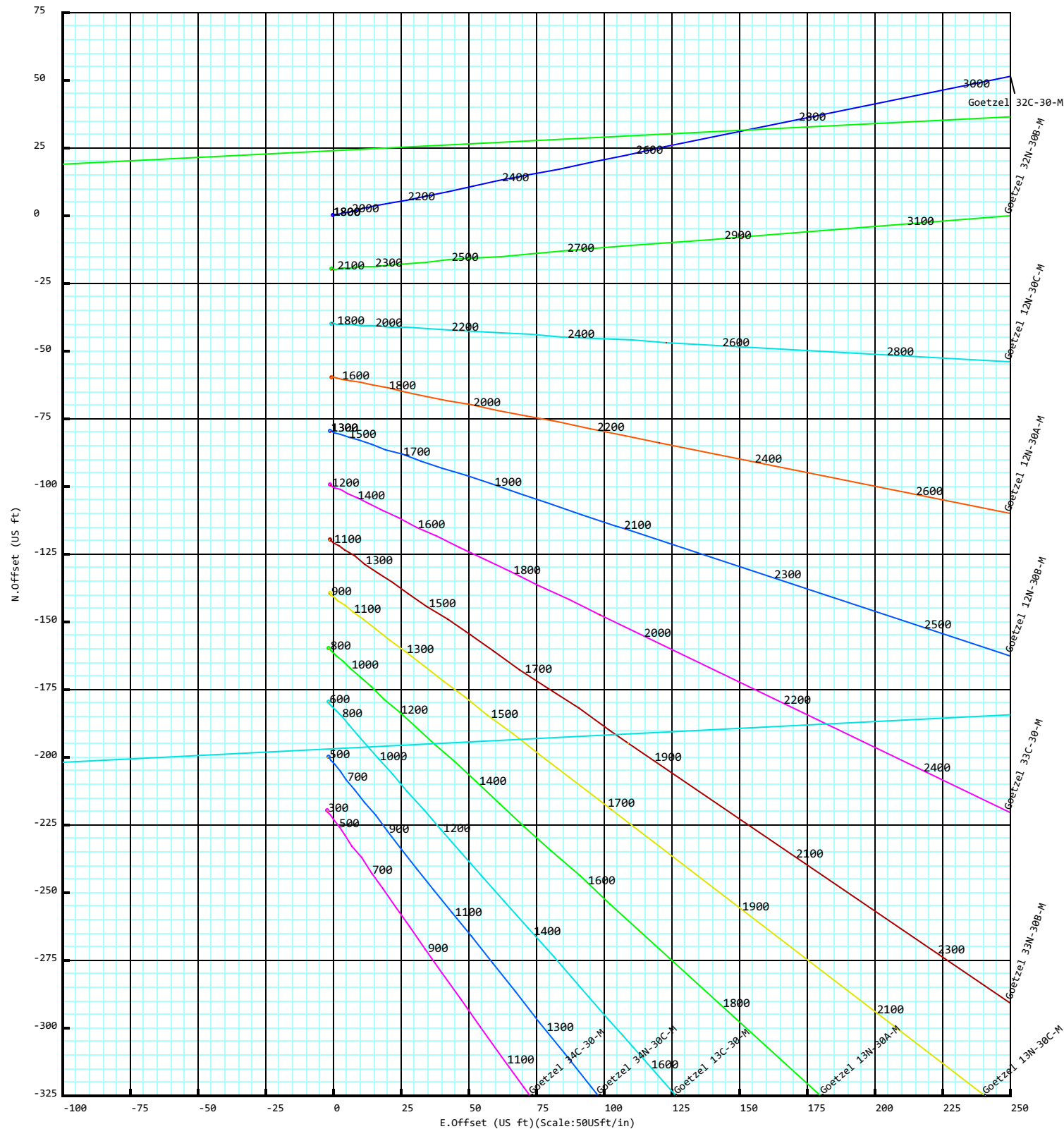


Goetzl Pad
Weld County, CO
Precision 562

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



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



Goetzel 12N-30A-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 12N-30A-M	Position (Relative to Site Centre)			
	+N/-S: -59.75 US ft	Northing: 1410423.30 US ft		Latitude: 40.457928000
	+E/-W: -0.56 US ft	Easting: 3193637.75 US ft		Longitude: -104.804136000
	Slot TVD Reference: Ground Elevation			
	Elevation above MSL: 4732.00 US ft			
	Comment:			
Well: Goetzel 12N-30A-M	Type:Main well		UWI:	Plan:Working Plan
	File Number:	Comment:		
	Closure Distance:7408.24US ft		Closure Azimuth:264.94°	
	Vertical Section: Position of Origin (Relative to Slot centre)			
	+N/-S: 0.00 US ft		+E/-W: 0.00 US ft	Az: 264.94°
	Magnetic Parameters:			
	Model: bggm2016	Field Strength: 52524.7nT	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 12N-30A-M (p)	0.00	15322.07	100.00	2

Secondary Well Names:

Goetzel 2-29 (s)
 Tollgate Farms 29-12G6 (s)
 Tigges 30-31 (s)
 Etter 30-32 (s)
 Goetzel 29-10G6 (s)
 Lafarge West 30-35 (s)
 Firestien #30-45 (s)
 Goetzel 32C-30-M (p)
 Goetzel 32N-30B-M (p)
 Goetzel 12N-30C-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)

Secondary Well Names:

Goetzel 34C-30-M (p)

Anti-Collision Report Terminology**S.Minor, S.Major:** Radii of the ellipse of uncertainty at the current location as seen in the along hole direction.**PHI:** Angle between high-side vector and semi-minor axis**TVD Spread:** Total TVD range of the ellipsoid of uncertainty at the current location.**ES:** Distance between the extremities of the primary and secondary uncertainty ellipsoids in the direction Cr-Cr.**T.Face to Sec:** Angle between the Hi-Side vector of the primary well at the current location and line of closest approach between the two wells.**AC Filter Info: No filter has been applied.****Default Survey Tool: MWD**

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

5D Anti-Collision Report

Anti-Collision Summary (TVD relative to Drill Floor)

SF							
Secondary Well Name	Pri MD (US ft)	Sec MD (US ft)	TVD (US ft)	CC (US ft)	ES (US ft)	SF	Risk
Goetzel 2-29 (s)	7798.05	6801.00	6829.00	69.55	-168.85	0.29	SF(Hi)
Etter 30-32 (s)	14975.00	6812.00	6829.00	162.17	-265.21	0.38	SF(Hi)
Tigges 30-31 (s)	13579.30	6812.00	6829.00	278.47	-110.34	0.72	SF(Hi)
Goetzel 12N-30C-M (p)	15315.17	15501.26	6829.00	230.52	-79.93	0.74	SF(Hi)
Tollgate Farms 29-12G6 (s)	9450.00	6802.00	6829.00	214.10	-62.03	0.78	SF(Hi)
Goetzel 12N-30B-M (p)	15322.07	15422.13	6829.00	365.67	-76.27	0.83	SF(Hi)
Goetzel 32N-30B-M (p)	15309.48	15473.86	6829.00	390.31	-48.90	0.89	SF(Hi)
Goetzel 33C-30-M (p)	15322.07	15576.20	6829.00	582.42	166.56	1.40	SF(Med)
Goetzel 33N-30B-M (p)	15322.07	15439.22	6829.00	649.75	189.78	1.41	SF(Med)
Goetzel 29-10G6 (s)	6377.54	6165.12	6198.12	301.63	97.30	1.48	SF(Med)
Goetzel 32C-30-M (p)	15309.14	15644.54	6829.00	680.17	263.04	1.63	SF(Lo)
Lafarge West 30-35 (s)	14695.31	6804.00	6829.00	822.09	402.85	1.96	SF(Lo)
Firestien #30-45 (s)	11593.16	6804.00	6829.00	754.22	420.76	2.26	SF(Lo)
Goetzel 13N-30C-M (p)	15166.60	15286.68	6829.00	1018.41	569.72	2.27	SF(Lo)
Goetzel 13N-30A-M (p)	15174.02	15136.85	6829.00	1172.47	718.84	2.58	
Goetzel 13C-30-M (p)	15322.07	15650.40	6829.00	1414.17	958.04	3.10	
Goetzel 34N-30C-M (p)	15322.07	15561.73	6829.00	1622.48	1161.37	3.52	
Goetzel 34C-30-M (p)	15322.07	15691.21	6829.00	1851.10	1392.89	4.04	
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	19.67	18.94	26.83	CC (Med)
Goetzel 12N-30B-M (p)	0.00	0.00	0.00	20.04	19.31	27.33	CC (Med)
Goetzel 32N-30B-M (p)	0.00	0.00	0.00	39.71	38.98	54.15	CC (Lo)
Goetzel 33C-30-M (p)	50.00	50.00	50.00	40.07	39.23	47.50	CC (Lo)
Goetzel 32C-30-M (p)	0.00	0.00	0.00	59.75	59.01	81.48	CC (Lo)
Goetzel 33N-30B-M (p)	0.00	0.00	0.00	60.11	59.38	81.97	CC (Lo)
Goetzel 2-29 (s)	7796.09	6801.00	6829.00	69.52	-168.60	0.29	SF(Hi)
Goetzel 13N-30C-M (p)	50.00	50.00	50.00	80.15	79.30	95.00	
Goetzel 13N-30A-M (p)	0.00	0.00	0.00	100.19	99.45	136.62	
Goetzel 13C-30-M (p)	50.00	50.00	50.00	120.22	119.38	142.51	
Goetzel 34N-30C-M (p)	50.00	50.00	50.00	140.26	139.42	166.26	
Goetzel 34C-30-M (p)	50.00	50.00	50.00	160.30	159.46	190.01	
Etter 30-32 (s)	14973.63	6812.00	6829.00	162.17	-265.26	0.38	SF(Hi)
Tollgate Farms 29-12G6 (s)	9447.07	6802.00	6829.00	214.08	-61.88	0.78	SF(Hi)
Tigges 30-31 (s)	13573.83	6812.00	6829.00	278.42	-110.17	0.72	SF(Hi)
Goetzel 29-10G6 (s)	6341.99	6129.81	6162.81	300.96	97.59	1.48	SF(Med)
Firestien #30-45 (s)	11538.67	6804.00	6829.00	752.25	420.01	2.26	SF(Lo)
Lafarge West 30-35 (s)	14680.27	6804.00	6829.00	821.95	402.92	1.96	SF(Lo)

5D Anti-Collision Report

Primary Well: Goetzel 12N-30A-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Nearest Well	Risk
0.00	0.00	0.00	0.00	0.00	0.00	0.36	19.67	18.94	26.83	Goetzel 12N-30C-M (p)	CC (Med)
100.00	0.00	0.00	100.00	0.11	0.11	0.36	19.67	18.72	20.62	Goetzel 12N-30C-M (p)	CC (Med)
200.00	0.00	0.00	200.00	0.34	0.34	0.36	19.67	18.27	14.02	Goetzel 12N-30C-M (p)	CC (Med)
300.00	0.00	0.00	300.00	0.56	0.56	0.36	19.67	17.82	10.62	Goetzel 12N-30C-M (p)	CC (Med)
400.00	0.00	0.00	400.00	0.79	0.79	0.36	19.67	17.37	8.54	Goetzel 12N-30C-M (p)	CC (Med)
500.00	0.00	0.00	500.00	1.01	1.01	0.36	19.67	16.92	7.15	Goetzel 12N-30C-M (p)	CC (Med)
600.00	0.00	0.00	600.00	1.24	1.24	0.36	19.67	16.47	6.14	Goetzel 12N-30C-M (p)	CC (Med)
700.00	0.00	0.00	700.00	1.46	1.46	0.36	19.67	16.02	5.39	Goetzel 12N-30C-M (p)	CC (Med)
800.00	0.00	0.00	800.00	1.69	1.69	0.36	19.67	15.57	4.80	Goetzel 12N-30C-M (p)	CC (Med)
900.00	0.00	0.00	900.00	1.91	1.91	0.36	19.67	15.12	4.32	Goetzel 12N-30C-M (p)	CC (Med)
1000.00	0.00	0.00	1000.00	2.14	2.14	0.36	19.67	14.67	3.93	Goetzel 12N-30C-M (p)	CC (Med)
1100.00	0.00	0.00	1100.00	2.36	2.36	0.36	19.67	14.22	3.61	Goetzel 12N-30C-M (p)	CC (Med)
1200.00	0.00	0.00	1200.00	2.58	2.58	0.36	19.67	13.78	3.34	Goetzel 12N-30C-M (p)	CC (Med)
1300.00	0.00	0.00	1300.00	2.81	2.81	0.36	19.67	13.33	3.10	Goetzel 12N-30C-M (p)	CC (Med)
1400.00	0.00	0.00	1400.00	3.03	3.03	0.36	19.67	12.88	2.89	Goetzel 12N-30C-M (p)	CC (Med)
1500.00	1.00	100.92	1500.00	3.25	3.25	258.20	19.76	12.53	2.73	Goetzel 12N-30C-M (p)	CC (Med)
1600.00	3.00	100.92	1599.93	3.45	3.44	248.76	20.76	13.11	2.71	Goetzel 12N-30C-M (p)	CC (Med)
1700.00	5.00	100.92	1699.68	3.65	3.63	233.24	24.18	16.10	2.99	Goetzel 12N-30C-M (p)	CC (Med)
1800.00	7.00	100.92	1799.13	3.87	3.82	220.24	30.40	21.92	3.59	Goetzel 12N-30C-M (p)	CC (Med)
1900.00	9.00	100.92	1898.15	4.11	4.02	212.55	37.92	29.05	4.27	Goetzel 12N-30C-M (p)	CC (Lo)
2000.00	11.00	100.92	1996.63	4.38	4.21	61.40	283.54	221.37	4.56	Goetzel 2- 29 (s)	
2000.00	11.00	100.92	1996.63	4.38	4.21	208.00	46.14	36.84	4.96	Goetzel 12N-30C-M (p)	CC (Lo)
2100.00	13.00	100.92	2094.44	4.70	4.41	65.32	274.05	208.77	4.20	Goetzel 2- 29 (s)	
2100.00	13.00	100.92	2094.44	4.70	4.41	39.33	51.92	42.18	5.33	Goetzel 12N-30B-M (p)	CC (Lo)
2200.00	15.00	100.92	2191.46	5.06	4.62	70.14	264.64	195.86	3.85	Goetzel 2- 29 (s)	
2200.00	15.00	100.92	2191.46	5.06	4.62	39.54	56.91	46.59	5.51	Goetzel 12N-30B-M (p)	CC (Lo)

5D Anti-Collision Report

Primary Well: Goetzel 12N-30A-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
2300.00	16.88	100.92	2287.58	5.48	4.82	75.88	256.29	184.33	3.56	Goetzel 2- 29 (s)	
2300.00	16.88	100.92	2287.58	5.48	4.82	41.86	59.34	48.33	5.39	Goetzel 12N-30B-M (p)	CC (Lo)
2400.00	16.88	100.92	2383.27	5.94	5.06	82.06	250.48	175.05	3.32	Goetzel 2- 29 (s)	
2400.00	16.88	100.92	2383.27	5.94	5.06	45.03	60.75	48.95	5.15	Goetzel 12N-30B-M (p)	CC (Lo)
2500.00	16.88	100.92	2478.96	6.43	5.31	88.44	247.97	169.05	3.14	Goetzel 2- 29 (s)	
2500.00	16.88	100.92	2478.96	6.43	5.31	48.05	62.34	49.68	4.92	Goetzel 12N-30B-M (p)	CC (Lo)
2600.00	16.88	100.92	2574.65	6.95	5.57	94.85	248.84	166.69	3.03	Goetzel 2- 29 (s)	
2600.00	16.88	100.92	2574.65	6.95	5.57	50.91	64.09	50.51	4.72	Goetzel 12N-30B-M (p)	CC (Lo)
2700.00	16.88	100.92	2670.34	7.48	5.82	101.14	253.06	167.41	2.95	Goetzel 2- 29 (s)	
2700.00	16.88	100.92	2670.34	7.48	5.82	53.61	66.00	51.42	4.53	Goetzel 12N-30B-M (p)	
2800.00	16.88	100.92	2766.03	8.02	6.09	107.18	260.48	171.41	2.92	Goetzel 2- 29 (s)	
2800.00	16.88	100.92	2766.03	8.02	6.09	56.15	68.04	52.39	4.35	Goetzel 12N-30B-M (p)	
2900.00	16.88	100.92	2861.72	8.58	6.35	112.84	270.82	178.70	2.94	Goetzel 2- 29 (s)	
2900.00	16.88	100.92	2861.72	8.58	6.35	58.54	70.21	53.46	4.19	Goetzel 12N-30B-M (p)	
3000.00	16.88	100.92	2957.41	9.14	6.62	118.07	283.77	188.09	2.97	Goetzel 2- 29 (s)	
3000.00	16.88	100.92	2957.41	9.14	6.62	60.79	72.49	54.58	4.05	Goetzel 12N-30B-M (p)	
3100.00	16.88	100.92	3053.10	9.71	6.89	122.84	298.98	200.44	3.03	Goetzel 2- 29 (s)	
3100.00	16.88	100.92	3053.10	9.71	6.89	62.89	74.88	55.81	3.93	Goetzel 12N-30B-M (p)	
3200.00	16.88	100.92	3148.79	10.29	7.17	127.15	316.14	214.06	3.10	Goetzel 2- 29 (s)	
3200.00	16.88	100.92	3148.79	10.29	7.17	64.87	77.37	57.09	3.82	Goetzel 12N-30B-M (p)	
3300.00	16.88	100.92	3244.48	10.87	7.45	131.01	334.94	229.82	3.19	Goetzel 2- 29 (s)	
3300.00	16.88	100.92	3244.48	10.87	7.45	66.71	79.94	58.44	3.72	Goetzel 12N-30B-M (p)	
3400.00	16.88	100.92	3340.17	11.46	7.73	134.47	355.13	246.89	3.28	Goetzel 2- 29 (s)	
3400.00	16.88	100.92	3340.17	11.46	7.73	68.45	82.58	59.87	3.64	Goetzel 12N-30B-M (p)	
3500.00	16.88	100.92	3435.86	12.05	8.01	137.57	376.47	264.93	3.38	Goetzel 2- 29 (s)	
3500.00	16.88	100.92	3435.86	12.05	8.01	70.07	85.30	61.35	3.56	Goetzel 12N-30B-M (p)	
3600.00	16.88	100.92	3531.55	12.65	8.29	140.34	398.79	284.19	3.48	Goetzel 2- 29 (s)	
3600.00	16.88	100.92	3531.55	12.65	8.29	71.59	88.08	62.89	3.50	Goetzel 12N-30B-M (p)	
3700.00	16.88	100.92	3627.24	13.24	8.57	73.02	90.92	64.48	3.44	Goetzel 12N-30B-M (p)	

5D Anti-Collision Report

Primary Well: Goetzel 12N-30A-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
3800.00	16.88	100.92	3722.93	13.84	8.86	74.36	93.82	66.13	3.39	Goetzel 12N-30B-M (p)	
3900.00	16.88	100.92	3818.62	14.45	9.15	75.62	96.76	67.80	3.34	Goetzel 12N-30B-M (p)	
4000.00	16.88	100.92	3914.31	15.05	9.44	76.80	99.74	69.52	3.30	Goetzel 12N-30B-M (p)	
4100.00	16.88	100.92	4010.00	15.66	9.73	77.91	102.77	71.28	3.26	Goetzel 12N-30B-M (p)	
4200.00	16.88	100.92	4105.69	16.26	10.02	78.97	105.83	73.08	3.23	Goetzel 12N-30B-M (p)	
4300.00	16.88	100.92	4201.38	16.87	10.31	79.96	108.93	74.93	3.20	Goetzel 12N-30B-M (p)	
4400.00	16.88	100.92	4297.07	17.48	10.60	80.89	112.06	76.81	3.18	Goetzel 12N-30B-M (p)	
4500.00	16.88	100.92	4392.76	18.09	10.89	81.78	115.21	78.72	3.16	Goetzel 12N-30B-M (p)	
4600.00	16.88	100.92	4488.45	18.70	11.18	82.62	118.39	80.66	3.14	Goetzel 12N-30B-M (p)	
4700.00	16.88	100.92	4584.14	19.31	11.48	83.41	121.60	82.61	3.12	Goetzel 12N-30B-M (p)	
4800.00	16.88	100.92	4679.83	19.93	11.77	84.16	124.82	84.58	3.10	Goetzel 12N-30B-M (p)	
4900.00	16.88	100.92	4775.52	20.54	12.07	84.88	128.07	86.57	3.09	Goetzel 12N-30B-M (p)	
5000.00	16.88	100.92	4871.21	21.15	12.36	85.56	131.34	88.59	3.07	Goetzel 12N-30B-M (p)	
5100.00	16.88	100.92	4966.90	21.77	12.66	86.20	134.62	90.63	3.06	Goetzel 12N-30B-M (p)	
5200.00	16.88	100.92	5062.59	22.38	12.96	86.82	137.92	92.69	3.05	Goetzel 12N-30B-M (p)	
5300.00	16.88	100.92	5158.28	23.00	13.25	87.41	141.24	94.77	3.04	Goetzel 12N-30B-M (p)	
5400.00	16.88	100.92	5253.97	23.62	13.55	18.77	517.72	346.81	3.03	Goetzel 29-10G6 (s)	
5400.00	16.88	100.92	5253.97	23.62	13.55	87.97	144.57	96.86	3.03	Goetzel 12N-30B-M (p)	
5500.00	16.88	100.92	5349.66	24.23	13.85	19.86	490.18	315.87	2.81	Goetzel 29-10G6 (s)	
5500.00	16.88	100.92	5349.66	24.23	13.85	88.50	147.91	98.98	3.02	Goetzel 12N-30B-M (p)	
5600.00	16.88	100.92	5445.35	24.85	14.14	21.07	462.83	285.15	2.60	Goetzel 29-10G6 (s)	
5600.00	16.88	100.92	5445.35	24.85	14.14	89.01	151.27	101.10	3.02	Goetzel 12N-30B-M (p)	
5700.00	16.88	100.92	5541.04	25.47	14.44	22.44	435.70	254.72	2.41	Goetzel 29-10G6 (s)	SF(Lo)
5700.00	16.88	100.92	5541.04	25.47	14.44	89.50	154.63	103.22	3.01	Goetzel 12N-30B-M (p)	
5800.00	16.88	100.92	5636.73	26.09	14.74	23.98	408.82	224.60	2.22	Goetzel 29-10G6 (s)	SF(Lo)
5800.00	16.88	100.92	5636.73	26.09	14.74	89.97	158.01	105.35	3.00	Goetzel 12N-30B-M (p)	
5900.00	16.88	100.92	5732.42	26.71	15.04	25.74	382.27	194.53	2.04	Goetzel 29-10G6 (s)	SF(Lo)

5D Anti-Collision Report

Primary Well: Goetzel 12N-30A-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
5900.00	16.88	100.92	5732.42	26.71	15.04	90.42	161.40	107.50	2.99	Goetzel 12N-30B-M (p)	
6000.00	16.88	100.92	5828.11	27.32	15.34	27.75	356.11	164.38	1.86	Goetzel 29- 10G6 (s)	SF(Lo)
6000.00	16.88	100.92	5828.11	27.32	15.34	90.85	164.80	109.65	2.99	Goetzel 12N-30B-M (p)	
6100.00	16.01	101.72	5923.82	27.93	15.64	29.13	330.49	134.92	1.69	Goetzel 29- 10G6 (s)	SF(Lo)
6100.00	16.01	101.72	5923.82	27.93	15.64	90.49	168.18	111.81	2.98	Goetzel 12N-30B-M (p)	
6200.00	8.54	115.79	6021.49	28.27	15.83	15.80	311.21	112.14	1.56	Goetzel 29- 10G6 (s)	SF(Lo)
6200.00	8.54	115.79	6021.49	28.27	15.83	74.43	169.44	112.30	2.97	Goetzel 12N-30B-M (p)	
6300.00	4.13	184.30	6120.97	28.39	15.73	306.88	301.87	99.68	1.49	Goetzel 29- 10G6 (s)	SF(Med)
6300.00	4.13	184.30	6120.97	28.39	15.73	0.55	169.33	112.16	2.96	Goetzel 12N-30B-M (p)	
6400.00	9.44	241.68	6220.32	28.33	15.35	247.85	302.75	97.87	1.48	Goetzel 29- 10G6 (s)	SF(Med)
6400.00	9.44	241.68	6220.32	28.33	15.35	297.55	171.18	114.79	3.04	Goetzel 12N-30B-M (p)	
6500.00	17.00	253.67	6317.62	28.12	14.70	233.23	314.78	108.20	1.52	Goetzel 29- 10G6 (s)	SF(Lo)
6500.00	17.00	253.67	6317.62	28.12	14.70	280.03	175.22	120.33	3.19	Goetzel 12N-30B-M (p)	
6600.00	24.83	258.32	6410.97	27.81	13.81	225.56	339.11	130.04	1.62	Goetzel 29- 10G6 (s)	SF(Lo)
6600.00	24.83	258.32	6410.97	27.81	13.81	270.19	181.32	128.24	3.42	Goetzel 12N-30B-M (p)	
6700.00	32.74	260.84	6498.54	27.45	12.73	220.22	376.56	165.97	1.79	Goetzel 29- 10G6 (s)	SF(Lo)
6700.00	32.74	260.84	6498.54	27.45	12.73	262.99	189.10	137.99	3.70	Goetzel 12N-30B-M (p)	
6800.00	40.68	262.46	6578.65	27.11	11.55	216.45	427.10	214.29	2.01	Goetzel 29- 10G6 (s)	SF(Lo)
6800.00	40.68	262.46	6578.65	27.11	11.55	257.32	198.08	148.92	4.03	Goetzel 12N-30B-M (p)	
6900.00	48.64	263.62	6649.73	26.85	10.38	214.16	489.89	275.20	2.28	Goetzel 29- 10G6 (s)	SF(Lo)
6900.00	48.64	263.62	6649.73	26.85	10.38	252.79	207.65	160.01	4.36	Goetzel 12N-30B-M (p)	
7000.00	56.60	264.53	6710.39	26.73	9.39	213.47	563.51	347.55	2.61	Goetzel 29- 10G6 (s)	
7000.00	56.60	264.53	6710.39	26.73	9.39	249.20	217.22	170.53	4.65	Goetzel 12N-30B-M (p)	
7100.00	64.58	265.29	6759.45	26.82	8.79	214.87	646.17	428.15	2.96	Goetzel 29- 10G6 (s)	
7100.00	64.58	265.29	6759.45	26.82	8.79	246.46	226.17	179.75	4.87	Goetzel 12N-30B-M (p)	
7200.00	72.55	265.95	6795.97	27.16	8.74	24.43	596.42	377.03	2.72	Goetzel 2- 29 (s)	
7200.00	72.55	265.95	6795.97	27.16	8.74	244.48	233.96	186.90	4.97	Goetzel 12N-30B-M (p)	
7300.00	80.53	266.56	6819.22	27.75	9.32	42.57	500.22	280.48	2.28	Goetzel 2- 29 (s)	SF(Lo)
7300.00	80.53	266.56	6819.22	27.75	9.32	243.21	240.15	191.65	4.95	Goetzel 12N-30B-M (p)	

5D Anti-Collision Report

Primary Well: Goetzel 12N-30A-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
7400.00	88.51	267.14	6828.76	28.57	10.40	81.67	402.06	181.49	1.82	Goetzel 2- 29 (s)	SF(Lo)
7400.00	88.51	267.14	6828.76	28.57	10.40	242.61	244.39	193.56	4.81	Goetzel 12N-30B-M (p)	
7500.00	90.00	267.24	6829.00	29.58	11.03	90.00	304.06	83.03	1.38	Goetzel 2- 29 (s)	SF(Med)
7500.00	90.00	267.24	6829.00	29.58	11.03	242.68	246.23	193.17	4.64	Goetzel 12N-30B-M (p)	
7600.00	90.00	267.24	6829.00	30.81	11.53	90.00	207.97	-13.64	0.94	Goetzel 2- 29 (s)	SF(Hi)
7700.00	90.00	267.24	6829.00	32.23	12.05	90.00	118.54	-107.40	0.52	Goetzel 2- 29 (s)	SF(Hi)
7800.00	90.00	267.24	6829.00	33.83	12.59	90.00	69.63	-168.86	0.29	Goetzel 2- 29 (s)	SF(Hi)
7900.00	90.00	267.24	6829.00	35.57	13.16	90.00	125.09	-104.48	0.54	Goetzel 2- 29 (s)	SF(Hi)
8000.00	90.00	267.24	6829.00	37.45	13.74	90.00	215.51	-9.68	0.96	Goetzel 2- 29 (s)	SF(Hi)
8100.00	90.00	267.24	6829.00	39.43	14.33	90.00	311.84	88.77	1.40	Goetzel 2- 29 (s)	SF(Med)
8100.00	90.00	267.24	6829.00	39.43	14.33	243.70	255.06	184.08	3.59	Goetzel 12N-30B-M (p)	
8200.00	90.00	267.24	6829.00	41.51	14.94	90.00	409.93	187.23	1.84	Goetzel 2- 29 (s)	SF(Lo)
8200.00	90.00	267.24	6829.00	41.51	14.94	243.86	256.54	181.71	3.43	Goetzel 12N-30B-M (p)	
8300.00	90.00	267.24	6829.00	43.66	15.55	90.00	508.76	286.37	2.29	Goetzel 2- 29 (s)	SF(Lo)
8300.00	90.00	267.24	6829.00	43.66	15.55	244.02	258.02	179.21	3.27	Goetzel 12N-30B-M (p)	
8400.00	90.00	267.24	6829.00	45.89	16.18	90.00	607.98	385.78	2.74	Goetzel 2- 29 (s)	
8400.00	90.00	267.24	6829.00	45.89	16.18	244.18	259.50	176.59	3.13	Goetzel 12N-30B-M (p)	
8500.00	90.00	267.24	6829.00	48.18	16.82	244.34	260.99	173.87	3.00	Goetzel 12N-30B-M (p)	
8600.00	90.00	267.24	6829.00	50.52	17.46	244.50	262.48	171.06	2.87	Goetzel 12N-30B-M (p)	
8700.00	90.00	267.24	6829.00	52.90	18.11	244.65	263.97	168.11	2.75	Goetzel 12N-30B-M (p)	
8800.00	90.00	267.24	6829.00	55.32	18.76	244.80	265.46	165.09	2.64	Goetzel 12N-30B-M (p)	
8900.00	90.00	267.24	6829.00	57.78	19.43	244.95	266.95	161.99	2.54	Goetzel 12N-30B-M (p)	
9000.00	90.00	267.24	6829.00	60.27	20.09	90.00	495.61	260.88	2.11	Tollgate Farms 29- 12G6 (s)	SF(Lo)
9000.00	90.00	267.24	6829.00	60.27	20.09	245.10	268.45	158.79	2.45	Goetzel 12N-30B-M (p)	SF(Lo)
9100.00	90.00	267.24	6829.00	62.78	20.76	90.00	407.71	166.99	1.69	Tollgate Farms 29- 12G6 (s)	SF(Lo)
9100.00	90.00	267.24	6829.00	62.78	20.76	245.25	269.94	155.53	2.36	Goetzel 12N-30B-M (p)	SF(Lo)
9200.00	90.00	267.24	6829.00	65.32	21.44	90.00	326.85	77.35	1.31	Tollgate Farms 29- 12G6 (s)	SF(Med)
9200.00	90.00	267.24	6829.00	65.32	21.44	245.40	271.44	152.24	2.28	Goetzel 12N-30B-M (p)	SF(Lo)
9300.00	90.00	267.24	6829.00	67.88	22.12	90.00	259.68	-1.59	0.99		SF(Hi)

5D Anti-Collision Report

Primary Well: Goetzel 12N-30A-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
9400.00	90.00	267.24	6829.00	70.45	22.80	90.00	219.17	-53.62	0.80	Tollgate Farms 29- 12G6 (s)	SF(Hi)
9500.00	90.00	267.24	6829.00	73.05	23.49	90.00	220.54	-54.60	0.80	Tollgate Farms 29- 12G6 (s)	SF(Hi)
9600.00	90.00	267.24	6829.00	75.65	24.17	90.00	263.14	-2.68	0.99	Tollgate Farms 29- 12G6 (s)	SF(Hi)
9700.00	90.00	267.24	6829.00	78.27	24.87	90.00	331.43	75.81	1.30	Tollgate Farms 29- 12G6 (s)	SF(Med)
9700.00	90.00	267.24	6829.00	78.27	24.87	131.76	268.80	146.63	2.20	Tollgate Farms 29- 12G6 (s)	SF(Lo)
9800.00	90.00	267.24	6829.00	80.91	25.56	90.00	412.85	165.57	1.67	Goetzel 12N-30C-M (p)	SF(Lo)
9800.00	90.00	267.24	6829.00	80.91	25.56	131.90	268.06	142.09	2.13	Tollgate Farms 29- 12G6 (s)	SF(Lo)
9900.00	90.00	267.24	6829.00	83.55	26.25	246.37	281.98	128.24	1.83	Goetzel 12N-30C-M (p)	SF(Lo)
9900.00	90.00	267.24	6829.00	83.55	26.25	132.04	267.33	137.55	2.06	Goetzel 12N-30B-M (p)	SF(Lo)
10000.00	90.00	267.24	6829.00	86.20	26.95	246.51	283.49	124.71	1.79	Goetzel 12N-30C-M (p)	SF(Lo)
10000.00	90.00	267.24	6829.00	86.20	26.95	132.18	266.60	133.03	2.00	Goetzel 12N-30B-M (p)	SF(Lo)
10100.00	90.00	267.24	6829.00	88.87	27.65	246.64	285.00	121.17	1.74	Goetzel 12N-30C-M (p)	SF(Lo)
10100.00	90.00	267.24	6829.00	88.87	27.65	132.32	265.87	128.51	1.94	Goetzel 12N-30B-M (p)	SF(Lo)
10200.00	90.00	267.24	6829.00	91.54	28.35	246.77	286.52	117.60	1.70	Goetzel 12N-30C-M (p)	SF(Lo)
10200.00	90.00	267.24	6829.00	91.54	28.35	132.46	265.14	123.99	1.88	Goetzel 12N-30B-M (p)	SF(Lo)
10300.00	90.00	267.24	6829.00	94.22	29.05	246.90	288.03	114.02	1.66	Goetzel 12N-30C-M (p)	SF(Lo)
10300.00	90.00	267.24	6829.00	94.22	29.05	132.61	264.42	119.49	1.82	Goetzel 12N-30B-M (p)	SF(Lo)
10400.00	90.00	267.24	6829.00	96.90	29.76	247.03	289.55	110.42	1.62	Goetzel 12N-30C-M (p)	SF(Lo)
10400.00	90.00	267.24	6829.00	96.90	29.76	132.75	263.70	115.00	1.77	Goetzel 12N-30B-M (p)	SF(Lo)
10500.00	90.00	267.24	6829.00	99.59	30.46	247.15	291.07	106.80	1.58	Goetzel 12N-30C-M (p)	SF(Lo)
10500.00	90.00	267.24	6829.00	99.59	30.46	132.90	262.97	110.52	1.72	Goetzel 12N-30B-M (p)	SF(Lo)
10600.00	90.00	267.24	6829.00	102.29	31.17	247.28	292.59	103.18	1.54	Goetzel 12N-30C-M (p)	SF(Lo)
10600.00	90.00	267.24	6829.00	102.29	31.17	133.04	262.25	106.05	1.68	Goetzel 12N-30B-M (p)	SF(Lo)
10700.00	90.00	267.24	6829.00	104.99	31.88	247.40	294.11	99.53	1.51	Goetzel 12N-30C-M (p)	SF(Lo)
10700.00	90.00	267.24	6829.00	104.99	31.88	133.19	261.54	101.59	1.64	Goetzel 12N-30B-M (p)	SF(Lo)

5D Anti-Collision Report

Primary Well: Goetzel 12N-30A-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
10800.00	90.00	267.24	6829.00	107.70	32.59	247.53	295.64	95.88	1.48	Goetzel 12N-30C-M (p)	SF(Med)
10800.00	90.00	267.24	6829.00	107.70	32.59	133.34	260.82	97.15	1.59	Goetzel 12N-30B-M (p)	SF(Lo)
10900.00	90.00	267.24	6829.00	110.41	33.30	247.65	297.16	92.21	1.45	Goetzel 12N-30C-M (p)	SF(Med)
10900.00	90.00	267.24	6829.00	110.41	33.30	133.49	260.10	92.72	1.55	Goetzel 12N-30B-M (p)	SF(Lo)
11000.00	90.00	267.24	6829.00	113.13	34.01	247.77	298.69	88.53	1.42	Goetzel 12N-30C-M (p)	SF(Med)
11000.00	90.00	267.24	6829.00	113.13	34.01	133.64	259.39	88.31	1.52	Goetzel 12N-30B-M (p)	SF(Lo)
11100.00	90.00	267.24	6829.00	115.85	34.72	247.89	300.22	84.85	1.39	Goetzel 12N-30C-M (p)	SF(Med)
11100.00	90.00	267.24	6829.00	115.85	34.72	133.79	258.68	83.92	1.48	Goetzel 12N-30B-M (p)	SF(Med)
11200.00	90.00	267.24	6829.00	118.58	35.43	248.00	301.74	81.15	1.37	Goetzel 12N-30C-M (p)	SF(Med)
11200.00	90.00	267.24	6829.00	118.58	35.43	133.94	257.97	79.54	1.45	Goetzel 12N-30B-M (p)	SF(Med)
11300.00	90.00	267.24	6829.00	121.30	36.15	248.12	303.27	77.44	1.34	Goetzel 12N-30C-M (p)	SF(Med)
11300.00	90.00	267.24	6829.00	121.30	36.15	134.09	257.26	75.18	1.41	Goetzel 12N-30B-M (p)	SF(Med)
11400.00	90.00	267.24	6829.00	124.04	36.86	248.24	304.81	73.72	1.32	Goetzel 12N-30C-M (p)	SF(Med)
11400.00	90.00	267.24	6829.00	124.04	36.86	134.24	256.55	70.84	1.38	Goetzel 12N-30B-M (p)	SF(Med)
11500.00	90.00	267.24	6829.00	126.77	37.58	248.35	306.34	70.00	1.30	Goetzel 12N-30C-M (p)	SF(Med)
11500.00	90.00	267.24	6829.00	126.77	37.58	134.40	255.85	66.51	1.35	Goetzel 12N-30B-M (p)	SF(Med)
11600.00	90.00	267.24	6829.00	129.51	38.29	248.46	307.87	66.26	1.27	Goetzel 12N-30C-M (p)	SF(Med)
11600.00	90.00	267.24	6829.00	129.51	38.29	134.55	255.15	62.21	1.32	Goetzel 12N-30B-M (p)	SF(Med)
11700.00	90.00	267.24	6829.00	132.25	39.01	248.58	309.41	62.52	1.25	Goetzel 12N-30C-M (p)	SF(Med)
11700.00	90.00	267.24	6829.00	132.25	39.01	134.71	254.45	57.92	1.29	Goetzel 12N-30B-M (p)	SF(Med)
11800.00	90.00	267.24	6829.00	134.99	39.73	248.69	310.94	58.77	1.23	Goetzel 12N-30C-M (p)	SF(Med)
11800.00	90.00	267.24	6829.00	134.99	39.73	134.86	253.75	53.66	1.27	Goetzel 12N-30B-M (p)	SF(Med)
11900.00	90.00	267.24	6829.00	137.73	40.44	248.80	312.48	55.01	1.21	Goetzel 12N-30C-M (p)	SF(Med)
11900.00	90.00	267.24	6829.00	137.73	40.44	135.02	253.05	49.41	1.24	Goetzel 12N-30B-M (p)	SF(Med)
12000.00	90.00	267.24	6829.00	140.48	41.16	248.91	314.02	51.25	1.20	Goetzel 12N-30C-M (p)	SF(Med)

5D Anti-Collision Report

Primary Well: Goetzel 12N-30A-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
12000.00	90.00	267.24	6829.00	140.48	41.16	135.18	252.36	45.19	1.22	Goetzel 12N-30B-M (p)	SF(Med)
12100.00	90.00	267.24	6829.00	143.23	41.88	249.01	315.56	47.48	1.18	Goetzel 12N-30C-M (p)	SF(Med)
12100.00	90.00	267.24	6829.00	143.23	41.88	135.34	251.66	40.99	1.19	Goetzel 12N-30B-M (p)	SF(Med)
12200.00	90.00	267.24	6829.00	145.98	42.60	249.12	317.10	43.71	1.16	Goetzel 12N-30C-M (p)	SF(Med)
12200.00	90.00	267.24	6829.00	145.98	42.60	135.50	250.97	36.81	1.17	Goetzel 12N-30B-M (p)	SF(Med)
12300.00	90.00	267.24	6829.00	148.73	43.32	249.23	318.64	39.92	1.14	Goetzel 12N-30C-M (p)	SF(Med)
12300.00	90.00	267.24	6829.00	148.73	43.32	135.66	250.28	32.65	1.15	Goetzel 12N-30B-M (p)	SF(Med)
12400.00	90.00	267.24	6829.00	151.49	44.04	249.33	320.18	36.14	1.13	Goetzel 12N-30C-M (p)	SF(Med)
12400.00	90.00	267.24	6829.00	151.49	44.04	135.82	249.60	28.52	1.13	Goetzel 12N-30B-M (p)	SF(Med)
12500.00	90.00	267.24	6829.00	154.24	44.76	135.98	248.91	24.41	1.11	Goetzel 12N-30C-M (p)	SF(Med)
12600.00	90.00	267.24	6829.00	157.00	45.48	136.15	248.23	20.32	1.09	Goetzel 12N-30B-M (p)	SF(Med)
12700.00	90.00	267.24	6829.00	159.76	46.20	136.31	247.55	16.26	1.07	Goetzel 12N-30C-M (p)	SF(Med)
12800.00	90.00	267.24	6829.00	162.52	46.93	136.48	246.87	12.22	1.05	Goetzel 12N-30B-M (p)	SF(Med)
12900.00	90.00	267.24	6829.00	165.28	47.65	136.64	246.19	8.21	1.03	Goetzel 12N-30C-M (p)	SF(Med)
13000.00	90.00	267.24	6829.00	168.05	48.37	136.81	245.52	4.22	1.02	Goetzel 12N-30B-M (p)	SF(Med)
13100.00	90.00	267.24	6829.00	170.81	49.09	136.98	244.85	0.26	1.00	Goetzel 12N-30C-M (p)	SF(Med)
13200.00	90.00	267.24	6829.00	173.58	49.82	137.15	244.18	-3.67	0.99	Goetzel 12N-30B-M (p)	SF(Hi)
13300.00	90.00	267.24	6829.00	176.34	50.54	137.32	243.51	-7.58	0.97	Goetzel 12N-30C-M (p)	SF(Hi)
13400.00	90.00	267.24	6829.00	179.11	51.26	90.00	328.18	-29.11	0.92	Tigges 30- 31 (s)	SF(Hi)
13400.00	90.00	267.24	6829.00	179.11	51.26	137.49	242.84	-11.46	0.95	Goetzel 12N-30B-M (p)	SF(Hi)
13500.00	90.00	267.24	6829.00	181.88	51.99	90.00	288.02	-93.07	0.76	Tigges 30- 31 (s)	SF(Hi)
13500.00	90.00	267.24	6829.00	181.88	51.99	137.66	242.18	-15.31	0.94	Goetzel 12N-30C-M (p)	SF(Hi)
13600.00	90.00	267.24	6829.00	184.65	52.71	90.00	279.65	-108.65	0.72	Tigges 30- 31 (s)	SF(Hi)
13600.00	90.00	267.24	6829.00	184.65	52.71	137.83	241.51	-19.14	0.93	Goetzel 12N-30B-M (p)	SF(Hi)
13700.00	90.00	267.24	6829.00	187.42	53.44	90.00	305.71	-68.89	0.82	Tigges 30- 31 (s)	SF(Hi)
13700.00	90.00	267.24	6829.00	187.42	53.44	138.00	240.85	-22.93	0.91		SF(Hi)

5D Anti-Collision Report

Primary Well: Goetzel 12N-30A-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
13800.00	90.00	267.24	6829.00	190.19	54.16	138.18	240.20	-26.70	0.90	Goetzel 12N-30C-M (p)	SF(Hi)
13900.00	90.00	267.24	6829.00	192.96	54.89	138.35	239.54	-30.44	0.89	Goetzel 12N-30C-M (p)	SF(Hi)
14000.00	90.00	267.24	6829.00	195.74	55.61	138.53	238.89	-34.14	0.87	Goetzel 12N-30C-M (p)	SF(Hi)
14100.00	90.00	267.24	6829.00	198.51	56.34	138.71	238.24	-37.82	0.86	Goetzel 12N-30C-M (p)	SF(Hi)
14200.00	90.00	267.24	6829.00	201.29	57.06	138.89	237.59	-41.47	0.85	Goetzel 12N-30C-M (p)	SF(Hi)
14300.00	90.00	267.24	6829.00	204.06	57.79	139.07	236.94	-45.08	0.84	Goetzel 12N-30C-M (p)	SF(Hi)
14400.00	90.00	267.24	6829.00	206.84	58.51	139.25	236.30	-48.67	0.83	Goetzel 12N-30C-M (p)	SF(Hi)
14500.00	90.00	267.24	6829.00	209.61	59.24	139.43	235.66	-52.22	0.82	Goetzel 12N-30C-M (p)	SF(Hi)
14600.00	90.00	267.24	6829.00	212.39	59.97	139.61	235.02	-55.74	0.81	Goetzel 12N-30C-M (p)	SF(Hi)
14700.00	90.00	267.24	6829.00	215.17	60.69	139.79	234.38	-59.23	0.80	Goetzel 12N-30C-M (p)	SF(Hi)
14800.00	90.00	267.24	6829.00	217.95	61.42	270.00	237.52	-113.95	0.68	Etter 30-32 (s)	SF(Hi)
14800.00	90.00	267.24	6829.00	217.95	61.42	139.98	233.75	-62.68	0.79	Goetzel 12N-30C-M (p)	SF(Hi)
14900.00	90.00	267.24	6829.00	220.73	62.15	270.00	178.07	-226.81	0.44	Etter 30-32 (s)	SF(Hi)
15000.00	90.00	267.24	6829.00	223.51	62.87	270.00	164.31	-261.42	0.39	Etter 30-32 (s)	SF(Hi)
15100.00	90.00	267.24	6829.00	226.29	63.60	270.00	205.64	-179.11	0.53	Etter 30-32 (s)	SF(Hi)
15200.00	90.00	267.24	6829.00	229.07	64.33	140.72	231.24	-76.16	0.75	Goetzel 12N-30C-M (p)	SF(Hi)
15300.00	90.00	267.24	6829.00	231.85	65.06	140.91	230.61	-79.45	0.74	Goetzel 12N-30C-M (p)	SF(Hi)
15322.07	90.00	267.24	6829.00	232.46	65.22	140.94	230.59	-79.59	0.74	Goetzel 12N-30C-M (p)	SF(Hi)
Secondary Well: Goetzel 2-29 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	28.00	0.00	0.00	153.40	313.76	312.99	407.61	
100.00	72.00	0.00	0.00	100.00	1.09	1.09	153.40	312.51	310.54	158.61	
200.00	172.00	0.00	0.00	200.00	2.69	2.69	153.40	312.51	308.72	82.45	
300.00	272.00	0.00	0.00	300.00	5.73	5.73	153.40	312.51	305.46	44.35	
400.00	372.00	0.00	0.00	400.00	8.77	8.77	153.40	312.51	302.21	30.33	
500.00	472.00	0.00	0.00	500.00	11.80	11.80	153.40	312.51	299.12	23.35	
600.00	572.00	0.00	0.00	600.00	14.84	14.84	153.40	312.51	295.87	18.78	
700.00	672.00	0.00	0.00	700.00	17.88	17.88	153.40	312.51	292.61	15.71	
800.00	772.00	0.00	0.00	800.00	20.91	20.91	153.40	312.51	289.35	13.50	
900.00	872.00	0.00	0.00	900.00	23.95	23.95	153.40	312.51	286.10	11.83	
1000.00	972.00	0.00	0.00	1000.00	26.99	26.99	153.40	312.51	282.84	10.53	
1100.00	1072.00	0.00	0.00	1100.00	30.02	30.02	153.40	312.51	279.59	9.49	
1200.00	1172.00	0.00	0.00	1200.00	33.06	33.06	153.40	312.51	276.33	8.64	

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
1300.00	1272.00	0.00	0.00	1300.00	36.10	36.10	153.40	312.51	273.07	7.92	
1400.00	1372.00	0.00	0.00	1400.00	39.14	39.14	153.40	312.51	269.82	7.32	
1500.00	1472.00	0.00	0.00	1500.00	42.17	42.17	52.55	312.24	266.31	6.80	
1600.00	1571.93	0.00	0.00	1599.93	45.21	45.21	53.09	310.13	261.00	6.31	
1700.00	1671.68	0.00	0.00	1699.68	48.24	48.24	54.20	305.99	253.70	5.85	
1800.00	1771.13	0.00	0.00	1799.13	51.26	51.26	55.92	299.98	244.36	5.39	
1900.00	1870.15	0.00	0.00	1898.15	54.26	54.26	58.29	292.37	233.43	4.96	
2000.00	1968.63	0.00	0.00	1996.63	57.25	57.25	61.40	283.54	221.37	4.56	
2100.00	2066.44	0.00	0.00	2094.44	60.22	60.22	65.32	274.05	208.77	4.20	
2200.00	2163.46	0.00	0.00	2191.46	63.17	63.17	70.14	264.64	195.86	3.85	
2300.00	2259.58	0.00	0.00	2287.58	66.09	66.09	75.88	256.29	184.33	3.56	
2400.00	2355.27	0.00	0.00	2383.27	69.00	69.00	82.06	250.48	175.05	3.32	
2500.00	2450.96	0.00	0.00	2478.96	71.90	71.90	88.44	247.97	169.05	3.14	
2600.00	2546.65	0.00	0.00	2574.65	74.81	74.81	94.85	248.84	166.69	3.03	
2700.00	2642.34	0.00	0.00	2670.34	77.71	77.71	101.14	253.06	167.41	2.95	
2800.00	2738.03	0.00	0.00	2766.03	80.62	80.62	107.18	260.48	171.41	2.92	
2900.00	2833.72	0.00	0.00	2861.72	83.53	83.53	112.84	270.82	178.70	2.94	
3000.00	2929.41	0.00	0.00	2957.41	86.43	86.43	118.07	283.77	188.09	2.97	
3100.00	3025.10	0.00	0.00	3053.10	89.34	89.34	122.84	298.98	200.44	3.03	
3200.00	3120.79	0.00	0.00	3148.79	92.24	92.24	127.15	316.14	214.06	3.10	
3300.00	3216.48	0.00	0.00	3244.48	95.15	95.15	131.01	334.94	229.82	3.19	
3400.00	3312.17	0.00	0.00	3340.17	98.06	98.06	134.47	355.13	246.89	3.28	
3500.00	3407.86	0.00	0.00	3435.86	100.96	100.96	137.57	376.47	264.93	3.38	
3600.00	3503.55	0.00	0.00	3531.55	103.87	103.87	140.34	398.79	284.19	3.48	
3700.00	3599.24	0.00	0.00	3627.24	106.77	106.77	142.81	421.93	304.49	3.59	
3800.00	3694.93	0.00	0.00	3722.93	109.68	109.68	145.04	445.75	324.94	3.69	
3900.00	3790.62	0.00	0.00	3818.62	112.59	112.59	147.04	470.17	346.13	3.79	
4000.00	3886.31	0.00	0.00	3914.31	115.49	115.49	148.85	495.08	367.92	3.89	
4100.00	3982.00	0.00	0.00	4010.00	118.40	118.40	150.49	520.43	390.21	4.00	
4200.00	4077.69	0.00	0.00	4105.69	121.30	121.30	151.97	546.14	412.96	4.10	
4300.00	4173.38	0.00	0.00	4201.38	124.21	124.21	153.33	572.17	435.99	4.20	
4400.00	4269.07	0.00	0.00	4297.07	127.12	127.12	154.57	598.48	458.98	4.29	
4500.00	4364.76	0.00	0.00	4392.76	130.02	130.02	155.70	625.03	482.28	4.38	
4600.00	4460.45	0.00	0.00	4488.45	132.93	132.93	156.75	651.79	505.83	4.47	
4700.00	4556.14	0.00	0.00	4584.14	135.83	135.83	157.71	678.74	529.62	4.55	
4800.00	4651.83	0.00	0.00	4679.83	138.74	138.74	158.60	705.86	553.58	4.64	
4900.00	4747.52	0.00	0.00	4775.52	141.65	141.65	159.42	733.12	577.70	4.72	
5000.00	4843.21	0.00	0.00	4871.21	144.55	144.55	160.19	760.52	601.98	4.80	
5100.00	4938.90	0.00	0.00	4966.90	147.46	147.46	160.90	788.03	626.40	4.88	
5200.00	5034.59	0.00	0.00	5062.59	150.36	150.36	161.56	815.65	650.94	4.95	
5300.00	5130.28	0.00	0.00	5158.28	153.27	153.27	162.19	843.36	675.60	5.03	
5400.00	5225.97	0.00	0.00	5253.97	156.18	156.18	162.77	871.16	700.35	5.10	
5500.00	5321.66	0.00	0.00	5349.66	159.08	159.08	163.31	899.04	725.20	5.17	
5600.00	5417.35	0.00	0.00	5445.35	161.99	161.99	163.83	927.00	749.93	5.24	
5700.00	5513.04	0.00	0.00	5541.04	164.89	164.89	164.31	955.01	774.69	5.30	
5800.00	5608.73	0.00	0.00	5636.73	167.80	167.80	164.77	983.09	799.52	5.36	
5900.00	5704.42	0.00	0.00	5732.42	170.71	170.71	165.20	1011.22	824.42	5.41	
6000.00	5800.11	0.00	0.00	5828.11	173.61	173.61	165.61	1039.40	849.38	5.47	
6100.00	5895.82	0.00	0.00	5923.82	176.52	176.52	165.22	1067.54	874.32	5.52	
6200.00	5993.49	0.00	0.00	6021.49	179.48	179.48	151.80	1087.50	891.08	5.54	
6300.00	6092.97	0.00	0.00	6120.97	182.50	182.50	83.94	1093.69	894.06	5.48	
6400.00	6192.32	0.00	0.00	6220.32	185.52	185.52	27.24	1085.98	883.21	5.36	
6500.00	6289.62	0.00	0.00	6317.62	188.48	188.48	16.01	1064.54	858.75	5.17	
6600.00	6382.97	0.00	0.00	6410.97	191.31	191.31	12.22	1029.79	821.14	4.94	
6700.00	6470.54	0.00	0.00	6498.54	193.97	193.97	10.76	982.41	771.14	4.65	
6800.00	6550.65	0.00	0.00	6578.65	196.40	196.40	10.48	923.33	709.72	4.32	
6900.00	6621.73	0.00	0.00	6649.73	198.56	198.56	11.16	853.73	638.08	3.96	
7000.00	6682.39	0.00	0.00	6710.39	200.40	200.40	12.97	774.98	557.65	3.57	

5D Anti-Collision Report

Secondary Well: Goetzel 2-29 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
7100.00	6731.45	0.00	0.00	6759.45	201.89	201.89	16.68	688.63	470.07	3.15	
7200.00	6767.97	0.00	0.00	6795.97	203.00	203.00	24.43	596.42	377.03	2.72	
7300.00	6791.22	0.00	0.00	6819.22	203.71	203.71	42.57	500.22	280.48	2.28	SF(Lo)
7400.00	6800.76	0.00	0.00	6828.76	204.00	204.00	81.67	402.06	181.49	1.82	SF(Lo)
7500.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	304.06	83.03	1.38	SF(Med)
7600.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	207.97	-13.64	0.94	
7700.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	118.54	-107.40	0.52	SF(Hi)
7800.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	69.63	-168.86	0.29	SF(Hi)
7900.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	125.09	-104.48	0.54	SF(Hi)
8000.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	215.51	-9.68	0.96	SF(Hi)
8100.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	311.84	88.77	1.40	SF(Med)
8200.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	409.93	187.23	1.84	SF(Lo)
8300.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	508.76	286.37	2.29	SF(Lo)
8400.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	607.98	385.78	2.74	
8500.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	707.41	485.44	3.19	
8600.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	806.99	585.26	3.64	
8700.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	906.66	685.16	4.09	
8800.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	1006.39	785.02	4.55	
8900.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	1106.18	884.90	5.00	
9000.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	1205.99	984.82	5.45	
9100.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	1305.84	1084.78	5.91	
9200.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	1405.71	1184.75	6.36	
9300.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	1505.60	1284.70	6.82	
9400.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	1605.50	1384.64	7.27	
9500.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	1705.41	1484.59	7.72	
9600.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	1805.33	1584.52	8.18	
9700.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	1905.26	1684.42	8.63	
9800.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	2005.20	1784.33	9.08	
9900.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	2105.14	1884.25	9.53	
10000.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	2205.09	1984.18	9.98	
10100.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	2305.04	2084.11	10.43	
10200.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	2404.99	2184.06	10.89	
10300.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	2504.95	2284.00	11.34	
10400.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	2604.92	2383.95	11.79	
10500.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	2704.88	2483.88	12.24	
10600.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	2804.85	2583.81	12.69	
10700.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	2904.82	2683.75	13.14	
10800.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	3004.79	2783.69	13.59	
10900.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	3104.77	2883.63	14.04	
11000.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	3204.74	2983.57	14.49	
11100.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	3304.72	3083.51	14.94	
11200.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	3404.70	3183.45	15.39	
11300.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	3504.68	3283.40	15.84	
11400.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	3604.66	3383.34	16.29	
11500.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	3704.64	3483.29	16.74	
11600.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	3804.62	3583.24	17.19	
11700.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	3904.61	3683.19	17.63	
11800.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	4004.59	3783.14	18.08	
11900.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	4104.58	3883.09	18.53	
12000.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	4204.56	3983.04	18.98	
12100.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	4304.55	4082.99	19.43	
12200.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	4404.54	4182.94	19.88	
12300.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	4504.53	4282.90	20.32	
12400.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	4604.51	4382.85	20.77	
12500.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	4704.50	4482.80	21.22	
12600.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	4804.49	4582.75	21.67	
12700.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	4904.48	4682.71	22.11	
12800.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	5004.47	4782.66	22.56	

5D Anti-Collision Report

Secondary Well: Goetzel 2-29 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
12900.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	5104.46	4882.61	23.01	
13000.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	5204.45	4982.56	23.45	
13100.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	5304.45	5082.51	23.90	
13200.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	5404.44	5182.47	24.35	
13300.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	5504.43	5282.42	24.79	
13400.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	5604.42	5382.37	25.24	
13500.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	5704.41	5482.32	25.68	
13600.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	5804.41	5582.27	26.13	
13700.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	5904.40	5682.22	26.57	
13800.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	6004.39	5782.17	27.02	
13900.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	6104.39	5882.12	27.46	
14000.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	6204.38	5982.07	27.91	
14100.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	6304.37	6082.02	28.35	
14200.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	6404.37	6181.97	28.80	
14300.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	6504.36	6281.92	29.24	
14400.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	6604.36	6381.86	29.68	
14500.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	6704.35	6481.81	30.13	
14600.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	6804.34	6581.76	30.57	
14700.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	6904.34	6681.71	31.01	
14800.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	7004.33	6781.65	31.45	
14900.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	7104.33	6881.60	31.90	
15000.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	7204.33	6981.55	32.34	
15100.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	7304.32	7081.49	32.78	
15200.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	7404.32	7181.44	33.22	
15300.00	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	7504.31	7281.38	33.66	
15322.07	6801.00	0.00	0.00	6829.00	204.01	204.01	90.00	7526.38	7303.44	33.76	
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	261.95	1531.40	1530.74	2318.91	
100.00	73.00	0.00	0.00	100.00	1.11	1.11	261.95	1531.16	1529.28	815.51	
200.00	173.00	0.00	0.00	200.00	2.72	2.72	261.95	1531.16	1527.45	412.19	
300.00	273.00	0.00	0.00	300.00	5.76	5.76	261.95	1531.16	1524.19	219.54	
400.00	373.00	0.00	0.00	400.00	8.80	8.80	261.95	1531.16	1521.10	152.17	
500.00	473.00	0.00	0.00	500.00	11.83	11.83	261.95	1531.16	1517.84	114.93	
600.00	573.00	0.00	0.00	600.00	14.87	14.87	261.95	1531.16	1514.58	92.34	
700.00	673.00	0.00	0.00	700.00	17.91	17.91	261.95	1531.16	1511.32	77.17	
800.00	773.00	0.00	0.00	800.00	20.94	20.94	261.95	1531.16	1508.06	66.28	
900.00	873.00	0.00	0.00	900.00	23.98	23.98	261.95	1531.16	1504.80	58.08	
1000.00	973.00	0.00	0.00	1000.00	27.02	27.02	261.95	1531.16	1501.54	51.69	
1100.00	1073.00	0.00	0.00	1100.00	30.05	30.05	261.95	1531.16	1498.28	46.57	
1200.00	1173.00	0.00	0.00	1200.00	33.09	33.09	261.95	1531.16	1495.02	42.37	
1300.00	1273.00	0.00	0.00	1300.00	36.13	36.13	261.95	1531.16	1491.76	38.86	
1400.00	1373.00	0.00	0.00	1400.00	39.17	39.17	261.95	1531.16	1488.50	35.89	
1500.00	1473.00	0.00	0.00	1500.00	42.20	42.20	161.04	1531.57	1485.67	33.36	
1600.00	1572.93	0.00	0.00	1599.93	45.24	45.24	161.06	1534.87	1485.74	31.24	
1700.00	1672.68	0.00	0.00	1699.68	48.27	48.27	161.10	1541.47	1489.12	29.44	
1800.00	1772.13	0.00	0.00	1799.13	51.29	51.29	161.16	1551.37	1495.80	27.92	
1900.00	1871.15	0.00	0.00	1898.15	54.29	54.29	161.24	1564.56	1505.77	26.61	
2000.00	1969.63	0.00	0.00	1996.63	57.28	57.28	161.34	1581.03	1519.04	25.51	
2100.00	2067.44	0.00	0.00	2094.44	60.25	60.25	161.45	1600.78	1535.60	24.56	
2200.00	2164.46	0.00	0.00	2191.46	63.20	63.20	161.57	1623.79	1555.44	23.76	
2300.00	2260.58	0.00	0.00	2287.58	66.12	66.12	161.71	1650.04	1578.54	23.08	
2400.00	2356.27	0.00	0.00	2383.27	69.03	69.03	162.02	1677.75	1603.12	22.48	
2500.00	2451.96	0.00	0.00	2478.96	71.93	71.93	162.32	1705.51	1627.74	21.93	
2600.00	2547.65	0.00	0.00	2574.65	74.84	74.84	162.61	1733.31	1652.40	21.42	
2700.00	2643.34	0.00	0.00	2670.34	77.74	77.74	162.89	1761.15	1677.10	20.96	

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
2800.00	2739.03	0.00	0.00	2766.03	80.65	80.65	163.16	1789.03	1701.84	20.52	
2900.00	2834.72	0.00	0.00	2861.72	83.56	83.56	163.43	1816.94	1726.61	20.11	
3000.00	2930.41	0.00	0.00	2957.41	86.46	86.46	163.68	1844.89	1751.35	19.72	
3100.00	3026.10	0.00	0.00	3053.10	89.37	89.37	163.93	1872.87	1776.13	19.36	
3200.00	3121.79	0.00	0.00	3148.79	92.27	92.27	164.17	1900.88	1800.94	19.02	
3300.00	3217.48	0.00	0.00	3244.48	95.18	95.18	164.41	1928.93	1825.77	18.70	
3400.00	3313.17	0.00	0.00	3340.17	98.09	98.09	164.64	1957.00	1850.63	18.40	
3500.00	3408.86	0.00	0.00	3435.86	100.99	100.99	164.86	1985.10	1875.52	18.12	
3600.00	3504.55	0.00	0.00	3531.55	103.90	103.90	165.07	2013.23	1900.44	17.85	
3700.00	3600.24	0.00	0.00	3627.24	106.80	106.80	165.28	2041.39	1925.38	17.60	
3800.00	3695.93	0.00	0.00	3722.93	109.71	109.71	165.49	2069.56	1950.34	17.36	
3900.00	3791.62	0.00	0.00	3818.62	112.62	112.62	165.69	2097.77	1975.33	17.13	
4000.00	3887.31	0.00	0.00	3914.31	115.52	115.52	165.88	2125.99	2000.34	16.92	
4100.00	3983.00	0.00	0.00	4010.00	118.43	118.43	166.07	2154.24	2025.37	16.72	
4200.00	4078.69	0.00	0.00	4105.69	121.33	121.33	166.25	2182.50	2050.42	16.52	
4300.00	4174.38	0.00	0.00	4201.38	124.24	124.24	166.43	2210.79	2075.50	16.34	
4400.00	4270.07	0.00	0.00	4297.07	127.15	127.15	166.60	2239.10	2100.59	16.17	
4500.00	4365.76	0.00	0.00	4392.76	130.05	130.05	166.77	2267.42	2125.70	16.00	
4600.00	4461.45	0.00	0.00	4488.45	132.96	132.96	166.94	2295.77	2150.84	15.84	
4700.00	4557.14	0.00	0.00	4584.14	135.86	135.86	167.10	2324.13	2175.99	15.69	
4800.00	4652.83	0.00	0.00	4679.83	138.77	138.77	167.26	2352.50	2201.15	15.54	
4900.00	4748.52	0.00	0.00	4775.52	141.68	141.68	167.41	2380.90	2226.34	15.40	
5000.00	4844.21	0.00	0.00	4871.21	144.58	144.58	167.56	2409.30	2251.54	15.27	
5100.00	4939.90	0.00	0.00	4966.90	147.49	147.49	167.71	2437.73	2276.75	15.14	
5200.00	5035.59	0.00	0.00	5062.59	150.39	150.39	167.85	2466.17	2301.99	15.02	
5300.00	5131.28	0.00	0.00	5158.28	153.30	153.30	167.99	2494.62	2327.23	14.90	
5400.00	5226.97	0.00	0.00	5253.97	156.21	156.21	168.13	2523.08	2352.49	14.79	
5500.00	5322.66	0.00	0.00	5349.66	159.11	159.11	168.26	2551.56	2377.77	14.68	
5600.00	5418.35	0.00	0.00	5445.35	162.02	162.02	168.39	2580.05	2403.06	14.58	
5700.00	5514.04	0.00	0.00	5541.04	164.92	164.92	168.52	2608.55	2428.36	14.48	
5800.00	5609.73	0.00	0.00	5636.73	167.83	167.83	168.65	2637.07	2453.67	14.38	
5900.00	5705.42	0.00	0.00	5732.42	170.74	170.74	168.77	2665.59	2479.00	14.29	
6000.00	5801.11	0.00	0.00	5828.11	173.64	173.64	168.89	2694.13	2504.33	14.19	
6100.00	5896.82	0.00	0.00	5923.82	176.55	176.55	168.22	2722.60	2529.60	14.11	
6200.00	5994.49	0.00	0.00	6021.49	179.51	179.51	154.47	2742.86	2546.69	13.98	
6300.00	6093.97	0.00	0.00	6120.97	182.54	182.54	86.36	2749.35	2549.99	13.79	
6400.00	6193.32	0.00	0.00	6220.32	185.55	185.55	29.46	2741.95	2539.46	13.54	
6500.00	6290.62	0.00	0.00	6317.62	188.51	188.51	18.05	2720.80	2515.29	13.24	
6600.00	6383.97	0.00	0.00	6410.97	191.34	191.34	14.11	2686.32	2477.97	12.89	
6700.00	6471.54	0.00	0.00	6498.54	194.00	194.00	12.48	2639.19	2428.21	12.51	
6800.00	6551.65	0.00	0.00	6578.65	196.43	196.43	11.99	2580.33	2366.99	12.09	
6900.00	6622.73	0.00	0.00	6649.73	198.59	198.59	12.33	2510.90	2295.48	11.66	
7000.00	6683.39	0.00	0.00	6710.39	200.44	200.44	13.55	2432.25	2215.08	11.20	
7100.00	6732.45	0.00	0.00	6759.45	201.93	201.93	16.11	2345.91	2127.36	10.73	
7200.00	6768.97	0.00	0.00	6795.97	203.03	203.03	21.34	2253.57	2034.00	10.26	
7300.00	6792.22	0.00	0.00	6819.22	203.74	203.74	34.13	2157.02	1936.77	9.79	
7400.00	6801.76	0.00	0.00	6828.76	204.03	204.03	76.29	2058.15	1837.64	9.33	
7500.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	1958.72	1738.26	8.88	
7600.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	1859.35	1638.87	8.43	
7700.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	1760.05	1539.59	7.98	
7800.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	1660.84	1440.36	7.53	
7900.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	1561.73	1341.11	7.08	
8000.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	1462.74	1241.80	6.62	
8100.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	1363.89	1142.54	6.16	
8200.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	1265.23	1043.42	5.70	
8300.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	1166.79	944.45	5.25	
8400.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	1068.65	845.59	4.79	
8500.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	970.88	747.03	4.34	

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
8600.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	873.62	648.81	3.89	
8700.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	777.06	551.11	3.44	
8800.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	681.48	453.99	3.00	
8900.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	587.39	356.46	2.54	
9000.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	495.61	260.88	2.11	SF(Lo)
9100.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	407.71	166.99	1.69	SF(Lo)
9200.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	326.85	77.35	1.31	SF(Med)
9300.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	259.68	-1.59	0.99	SF(Hi)
9400.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	219.17	-53.62	0.80	SF(Hi)
9500.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	220.54	-54.60	0.80	SF(Hi)
9600.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	263.14	-2.68	0.99	SF(Hi)
9700.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	331.43	75.81	1.30	SF(Med)
9800.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	412.85	165.57	1.67	SF(Lo)
9900.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	501.05	258.92	2.07	SF(Lo)
10000.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	593.00	355.14	2.49	SF(Lo)
10100.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	687.21	451.86	2.92	
10200.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	782.85	549.65	3.36	
10300.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	879.47	648.17	3.80	
10400.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	976.76	747.12	4.25	
10500.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	1074.55	845.86	4.70	
10600.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	1172.72	944.64	5.14	
10700.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	1271.17	1043.58	5.59	
10800.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	1369.84	1142.71	6.03	
10900.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	1468.70	1241.99	6.48	
11000.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	1567.70	1341.37	6.93	
11100.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	1666.82	1440.85	7.38	
11200.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	1766.04	1540.38	7.83	
11300.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	1865.34	1639.95	8.28	
11400.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	1964.71	1739.58	8.73	
11500.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	2064.14	1839.20	9.18	
11600.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	2163.63	1938.85	9.63	
11700.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	2263.16	2038.54	10.08	
11800.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	2362.73	2138.25	10.53	
11900.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	2462.34	2237.99	10.98	
12000.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	2561.97	2337.75	11.43	
12100.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	2661.64	2437.53	11.88	
12200.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	2761.32	2537.33	12.33	
12300.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	2861.03	2637.13	12.78	
12400.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	2960.76	2736.95	13.23	
12500.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	3060.51	2836.78	13.68	
12600.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	3160.27	2936.63	14.13	
12700.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	3260.05	3036.47	14.58	
12800.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	3359.84	3136.32	15.03	
12900.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	3459.64	3236.18	15.48	
13000.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	3559.46	3336.04	15.93	
13100.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	3659.28	3435.91	16.38	
13200.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	3759.11	3535.78	16.83	
13300.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	3858.96	3635.66	17.28	
13400.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	3958.81	3735.54	17.73	
13500.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	4058.66	3835.42	18.18	
13600.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	4158.53	3935.29	18.63	
13700.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	4258.40	4035.17	19.08	
13800.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	4358.27	4135.05	19.52	
13900.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	4458.16	4234.93	19.97	
14000.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	4558.04	4334.82	20.42	
14100.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	4657.94	4434.70	20.87	
14200.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	4757.83	4534.60	21.31	
14300.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	4857.73	4634.49	21.76	

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
14400.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	4957.64	4734.39	22.21	
14500.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	5057.55	4834.28	22.65	
14600.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	5157.46	4934.18	23.10	
14700.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	5257.37	5034.09	23.55	
14800.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	5357.29	5133.99	23.99	
14900.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	5457.21	5233.89	24.44	
15000.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	5557.14	5333.78	24.88	
15100.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	5657.07	5433.66	25.32	
15200.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	5756.99	5533.54	25.76	
15300.00	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	5856.93	5633.43	26.21	
15322.07	6802.00	0.00	0.00	6829.00	204.04	204.04	90.00	5878.98	5655.48	26.30	

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	266.46	5651.93	5651.21	7762.59	
100.00	83.00	0.00	0.00	100.00	1.26	1.26	266.46	5651.91	5649.81	2697.71	
200.00	183.00	0.00	0.00	200.00	3.03	3.03	266.46	5651.91	5647.83	1384.77	
300.00	283.00	0.00	0.00	300.00	6.06	6.06	266.46	5651.91	5644.57	770.34	
400.00	383.00	0.00	0.00	400.00	9.10	9.10	266.46	5651.91	5641.49	542.38	
500.00	483.00	0.00	0.00	500.00	12.14	12.14	266.46	5651.91	5638.23	413.27	
600.00	583.00	0.00	0.00	600.00	15.17	15.17	266.46	5651.91	5634.98	333.81	
700.00	683.00	0.00	0.00	700.00	18.21	18.21	266.46	5651.91	5631.72	279.98	
800.00	783.00	0.00	0.00	800.00	21.25	21.25	266.46	5651.91	5628.47	241.10	
900.00	883.00	0.00	0.00	900.00	24.28	24.28	266.46	5651.91	5625.21	211.70	
1000.00	983.00	0.00	0.00	1000.00	27.32	27.32	266.46	5651.91	5621.95	188.69	
1100.00	1083.00	0.00	0.00	1100.00	30.36	30.36	266.46	5651.91	5618.70	170.19	
1200.00	1183.00	0.00	0.00	1200.00	33.40	33.40	266.46	5651.91	5615.44	155.00	
1300.00	1283.00	0.00	0.00	1300.00	36.43	36.43	266.46	5651.91	5612.19	142.30	
1400.00	1383.00	0.00	0.00	1400.00	39.47	39.47	266.46	5651.91	5608.93	131.52	
1500.00	1483.00	0.00	0.00	1500.00	42.51	42.51	165.55	5652.33	5606.10	122.27	
1600.00	1582.93	0.00	0.00	1599.93	45.54	45.54	165.54	5655.71	5606.27	114.39	
1700.00	1682.68	0.00	0.00	1699.68	48.57	48.57	165.52	5662.47	5609.80	107.52	
1800.00	1782.13	0.00	0.00	1799.13	51.59	51.59	165.50	5672.59	5616.71	101.51	
1900.00	1881.15	0.00	0.00	1898.15	54.60	54.60	165.47	5686.07	5626.98	96.23	
2000.00	1979.63	0.00	0.00	1996.63	57.59	57.59	165.42	5702.89	5640.60	91.54	
2100.00	2077.44	0.00	0.00	2094.44	60.56	60.56	165.37	5723.04	5657.54	87.38	
2200.00	2174.46	0.00	0.00	2191.46	63.50	63.50	165.31	5746.49	5677.81	83.67	
2300.00	2270.58	0.00	0.00	2287.58	66.42	66.42	165.25	5773.20	5701.35	80.35	
2400.00	2366.27	0.00	0.00	2383.27	69.33	69.33	165.32	5801.37	5726.36	77.34	
2500.00	2461.96	0.00	0.00	2478.96	72.24	72.24	165.39	5829.55	5751.38	74.57	
2600.00	2557.65	0.00	0.00	2574.65	75.14	75.14	165.47	5857.73	5776.39	72.02	
2700.00	2653.34	0.00	0.00	2670.34	78.05	78.05	165.54	5885.92	5801.41	69.65	
2800.00	2749.03	0.00	0.00	2766.03	80.95	80.95	165.61	5914.12	5826.43	67.44	
2900.00	2844.72	0.00	0.00	2861.72	83.86	83.86	165.68	5942.33	5851.46	65.39	
3000.00	2940.41	0.00	0.00	2957.41	86.77	86.77	165.75	5970.55	5876.49	63.48	
3100.00	3036.10	0.00	0.00	3053.10	89.67	89.67	165.81	5998.77	5901.53	61.69	
3200.00	3131.79	0.00	0.00	3148.79	92.58	92.58	165.88	6027.00	5926.57	60.01	
3300.00	3227.48	0.00	0.00	3244.48	95.48	95.48	165.95	6055.24	5951.61	58.43	
3400.00	3323.17	0.00	0.00	3340.17	98.39	98.39	166.01	6083.49	5976.67	56.95	
3500.00	3418.86	0.00	0.00	3435.86	101.30	101.30	166.08	6111.74	6001.72	55.55	
3600.00	3514.55	0.00	0.00	3531.55	104.20	104.20	166.14	6140.01	6026.78	54.23	
3700.00	3610.24	0.00	0.00	3627.24	107.11	107.11	166.21	6168.27	6051.85	52.98	
3800.00	3705.93	0.00	0.00	3722.93	110.01	110.01	166.27	6196.55	6076.92	51.80	
3900.00	3801.62	0.00	0.00	3818.62	112.92	112.92	166.34	6224.83	6102.00	50.68	
4000.00	3897.31	0.00	0.00	3914.31	115.83	115.83	166.40	6253.12	6127.08	49.61	
4100.00	3993.00	0.00	0.00	4010.00	118.73	118.73	166.46	6281.42	6152.17	48.60	
4200.00	4088.69	0.00	0.00	4105.69	121.64	121.64	166.52	6309.73	6177.27	47.64	

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
4300.00	4184.38	0.00	0.00	4201.38	124.54	124.54	166.58	6338.04	6202.37	46.72	
4400.00	4280.07	0.00	0.00	4297.07	127.45	127.45	166.64	6366.35	6227.47	45.84	
4500.00	4375.76	0.00	0.00	4392.76	130.36	130.36	166.70	6394.68	6252.59	45.00	
4600.00	4471.45	0.00	0.00	4488.45	133.26	133.26	166.76	6423.01	6277.71	44.21	
4700.00	4567.14	0.00	0.00	4584.14	136.17	136.17	166.82	6451.34	6302.83	43.44	
4800.00	4662.83	0.00	0.00	4679.83	139.07	139.07	166.88	6479.69	6327.96	42.71	
4900.00	4758.52	0.00	0.00	4775.52	141.98	141.98	166.94	6508.04	6353.10	42.00	
5000.00	4854.21	0.00	0.00	4871.21	144.89	144.89	167.00	6536.39	6378.24	41.33	
5100.00	4949.90	0.00	0.00	4966.90	147.79	147.79	167.05	6564.75	6403.39	40.68	
5200.00	5045.59	0.00	0.00	5062.59	150.70	150.70	167.11	6593.12	6428.55	40.06	
5300.00	5141.28	0.00	0.00	5158.28	153.60	153.60	167.17	6621.49	6453.71	39.46	
5400.00	5236.97	0.00	0.00	5253.97	156.51	156.51	167.22	6649.87	6478.87	38.89	
5500.00	5332.66	0.00	0.00	5349.66	159.42	159.42	167.28	6678.25	6504.04	38.33	
5600.00	5428.35	0.00	0.00	5445.35	162.32	162.32	167.33	6706.64	6529.22	37.80	
5700.00	5524.04	0.00	0.00	5541.04	165.23	165.23	167.38	6735.04	6554.40	37.28	
5800.00	5619.73	0.00	0.00	5636.73	168.13	168.13	167.44	6763.44	6579.59	36.79	
5900.00	5715.42	0.00	0.00	5732.42	171.04	171.04	167.49	6791.85	6604.78	36.31	
6000.00	5811.11	0.00	0.00	5828.11	173.95	173.95	167.54	6820.26	6629.98	35.84	
6100.00	5906.82	0.00	0.00	5923.82	176.85	176.85	166.82	6848.59	6655.10	35.39	
6200.00	6004.49	0.00	0.00	6021.49	179.82	179.82	153.04	6868.71	6672.02	34.92	
6300.00	6103.97	0.00	0.00	6120.97	182.84	182.84	84.85	6875.03	6675.14	34.39	
6400.00	6203.32	0.00	0.00	6220.32	185.86	185.86	27.84	6867.42	6664.38	33.82	
6500.00	6300.62	0.00	0.00	6317.62	188.81	188.81	16.27	6846.03	6639.96	33.22	
6600.00	6393.97	0.00	0.00	6410.97	191.65	191.65	12.10	6811.29	6602.35	32.60	
6700.00	6481.54	0.00	0.00	6498.54	194.31	194.31	10.15	6763.87	6552.27	31.97	
6800.00	6561.65	0.00	0.00	6578.65	196.74	196.74	9.21	6704.69	6490.68	31.33	
6900.00	6632.73	0.00	0.00	6649.73	198.90	198.90	8.91	6634.90	6418.78	30.70	
7000.00	6693.39	0.00	0.00	6710.39	200.74	200.74	9.16	6555.86	6337.94	30.08	
7100.00	6742.45	0.00	0.00	6759.45	202.23	202.23	10.11	6469.11	6249.73	29.49	
7200.00	6778.97	0.00	0.00	6795.97	203.34	203.34	12.41	6376.34	6155.89	28.92	
7300.00	6802.22	0.00	0.00	6819.22	204.04	204.04	18.88	6279.34	6058.23	28.40	
7400.00	6811.76	0.00	0.00	6828.76	204.33	204.33	61.05	6180.01	5958.62	27.91	
7500.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	6080.12	5858.68	27.46	
7600.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	5980.23	5758.79	27.01	
7700.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	5880.34	5658.91	26.56	
7800.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	5780.45	5558.96	26.10	
7900.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	5680.57	5459.01	25.64	
8000.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	5580.69	5359.09	25.18	
8100.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	5480.82	5259.22	24.73	
8200.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	5380.95	5159.36	24.28	
8300.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	5281.09	5059.40	23.82	
8400.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	5181.23	4959.46	23.36	
8500.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	5081.38	4859.56	22.91	
8600.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	4981.53	4759.69	22.46	
8700.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	4881.69	4659.80	22.00	
8800.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	4781.85	4559.89	21.54	
8900.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	4682.03	4459.96	21.08	
9000.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	4582.21	4360.04	20.63	
9100.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	4482.40	4260.15	20.17	
9200.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	4382.59	4160.27	19.71	
9300.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	4282.80	4060.41	19.26	
9400.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	4183.02	3960.53	18.80	
9500.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	4083.24	3860.63	18.34	
9600.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	3983.48	3760.73	17.88	
9700.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	3883.73	3660.84	17.42	
9800.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	3784.00	3560.96	16.97	
9900.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	3684.28	3461.07	16.51	
10000.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	3584.57	3361.17	16.05	

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
10100.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	3484.88	3261.29	15.59	
10200.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	3385.21	3161.42	15.13	
10300.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	3285.56	3061.56	14.67	
10400.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	3185.93	2961.69	14.21	
10500.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	3086.33	2861.78	13.75	
10600.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	2986.75	2761.88	13.28	
10700.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	2887.20	2661.99	12.82	
10800.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	2787.68	2562.12	12.36	
10900.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	2688.20	2462.26	11.90	
11000.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	2588.76	2362.35	11.43	
11100.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	2489.36	2262.45	10.97	
11200.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	2390.01	2162.57	10.51	
11300.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	2290.72	2062.71	10.05	
11400.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	2191.50	1962.87	9.59	
11500.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	2092.35	1863.07	9.13	
11600.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	1993.28	1762.97	8.65	
11700.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	1894.31	1662.76	8.18	
11800.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	1795.46	1562.56	7.71	
11900.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	1696.74	1462.35	7.24	
12000.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	1598.18	1362.14	6.77	
12100.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	1499.81	1261.95	6.31	
12200.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	1401.67	1161.76	5.84	
12300.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	1303.82	1061.30	5.38	
12400.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	1206.31	960.85	4.91	
12500.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	1109.25	860.42	4.46	
12600.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	1012.76	760.07	4.01	
12700.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	917.03	659.87	3.57	
12800.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	822.31	558.57	3.12	
12900.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	729.00	457.23	2.68	
13000.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	637.73	356.46	2.27	SF(Lo)
13100.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	549.50	255.41	1.87	SF(Lo)
13200.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	466.05	155.66	1.50	SF(Lo)
13300.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	390.45	58.54	1.18	SF(Med)
13400.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	328.18	-29.11	0.92	SF(Hi)
13500.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	288.02	-93.07	0.76	SF(Hi)
13600.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	279.65	-108.65	0.72	SF(Hi)
13700.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	305.71	-68.89	0.82	SF(Hi)
13800.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	358.76	8.07	1.02	SF(Med)
13900.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	428.91	100.49	1.31	SF(Med)
14000.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	509.13	198.81	1.64	SF(Lo)
14100.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	595.37	298.50	2.01	SF(Lo)
14200.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	685.36	399.61	2.40	SF(Lo)
14300.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	777.80	500.57	2.81	
14400.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	871.90	601.06	3.22	
14500.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	967.20	701.80	3.64	
14600.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	1063.35	802.42	4.08	
14700.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	1160.16	903.08	4.51	
14800.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	1257.47	1003.75	4.96	
14900.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	1355.17	1104.16	5.40	
15000.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	1453.18	1204.27	5.84	
15100.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	1551.44	1304.41	6.28	
15200.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	1649.92	1404.57	6.72	
15300.00	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	1748.57	1504.69	7.17	
15322.07	6812.00	0.00	0.00	6829.00	204.34	204.34	90.00	1770.36	1526.77	7.27	

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
0.00	0.00	0.00	0.00	17.00	0.00	0.00	263.05	7070.18	7069.45	9710.44	
100.00	83.00	0.00	0.00	100.00	1.26	1.26	263.05	7070.16	7068.06	3373.57	
200.00	183.00	0.00	0.00	200.00	3.03	3.03	263.05	7070.16	7066.08	1731.56	
300.00	283.00	0.00	0.00	300.00	6.06	6.06	263.05	7070.16	7062.82	963.22	
400.00	383.00	0.00	0.00	400.00	9.10	9.10	263.05	7070.16	7059.73	678.17	
500.00	483.00	0.00	0.00	500.00	12.14	12.14	263.05	7070.16	7056.48	516.73	
600.00	583.00	0.00	0.00	600.00	15.17	15.17	263.05	7070.16	7053.22	417.38	
700.00	683.00	0.00	0.00	700.00	18.21	18.21	263.05	7070.16	7049.96	350.07	
800.00	783.00	0.00	0.00	800.00	21.25	21.25	263.05	7070.16	7046.70	301.45	
900.00	883.00	0.00	0.00	900.00	24.28	24.28	263.05	7070.16	7043.45	264.70	
1000.00	983.00	0.00	0.00	1000.00	27.32	27.32	263.05	7070.16	7040.19	235.93	
1100.00	1083.00	0.00	0.00	1100.00	30.36	30.36	263.05	7070.16	7036.93	212.80	
1200.00	1183.00	0.00	0.00	1200.00	33.40	33.40	263.05	7070.16	7033.68	193.80	
1300.00	1283.00	0.00	0.00	1300.00	36.43	36.43	263.05	7070.16	7030.42	177.92	
1400.00	1383.00	0.00	0.00	1400.00	39.47	39.47	263.05	7070.16	7027.16	164.44	
1500.00	1483.00	0.00	0.00	1500.00	42.51	42.51	162.13	7070.57	7024.33	152.90	
1600.00	1582.93	0.00	0.00	1599.93	45.54	45.54	162.12	7073.90	7024.43	143.00	
1700.00	1682.68	0.00	0.00	1699.68	48.57	48.57	162.09	7080.53	7027.85	134.39	
1800.00	1782.13	0.00	0.00	1799.13	51.59	51.59	162.06	7090.49	7034.58	126.84	
1900.00	1881.15	0.00	0.00	1898.15	54.60	54.60	162.01	7103.74	7044.62	120.16	
2000.00	1979.63	0.00	0.00	1996.63	57.59	57.59	161.95	7120.27	7057.94	114.24	
2100.00	2077.44	0.00	0.00	2094.44	60.56	60.56	161.88	7140.08	7074.55	108.97	
2200.00	2174.46	0.00	0.00	2191.46	63.50	63.50	161.79	7163.13	7094.42	104.26	
2300.00	2270.58	0.00	0.00	2287.58	66.42	66.42	161.70	7189.40	7117.52	100.03	
2400.00	2366.27	0.00	0.00	2383.27	69.33	69.33	161.77	7217.09	7142.07	96.20	
2500.00	2461.96	0.00	0.00	2478.96	72.24	72.24	161.84	7244.79	7166.61	92.67	
2600.00	2557.65	0.00	0.00	2574.65	75.14	75.14	161.91	7272.51	7191.17	89.41	
2700.00	2653.34	0.00	0.00	2670.34	78.05	78.05	161.98	7300.23	7215.72	86.38	
2800.00	2749.03	0.00	0.00	2766.03	80.95	80.95	162.05	7327.97	7240.29	83.57	
2900.00	2844.72	0.00	0.00	2861.72	83.86	83.86	162.12	7355.71	7264.86	80.96	
3000.00	2940.41	0.00	0.00	2957.41	86.77	86.77	162.19	7383.47	7289.43	78.52	
3100.00	3036.10	0.00	0.00	3053.10	89.67	89.67	162.26	7411.23	7314.02	76.24	
3200.00	3131.79	0.00	0.00	3148.79	92.58	92.58	162.33	7439.01	7338.61	74.10	
3300.00	3227.48	0.00	0.00	3244.48	95.48	95.48	162.40	7466.79	7363.20	72.08	
3400.00	3323.17	0.00	0.00	3340.17	98.39	98.39	162.46	7494.59	7387.80	70.18	
3500.00	3418.86	0.00	0.00	3435.86	101.30	101.30	162.53	7522.39	7412.41	68.40	
3600.00	3514.55	0.00	0.00	3531.55	104.20	104.20	162.59	7550.20	7437.03	66.71	
3700.00	3610.24	0.00	0.00	3627.24	107.11	107.11	162.66	7578.03	7461.65	65.12	
3800.00	3705.93	0.00	0.00	3722.93	110.01	110.01	162.73	7605.86	7486.28	63.61	
3900.00	3801.62	0.00	0.00	3818.62	112.92	112.92	162.79	7633.70	7510.92	62.18	
4000.00	3897.31	0.00	0.00	3914.31	115.83	115.83	162.85	7661.55	7535.57	60.82	
4100.00	3993.00	0.00	0.00	4010.00	118.73	118.73	162.92	7689.41	7560.23	59.53	
4200.00	4088.69	0.00	0.00	4105.69	121.64	121.64	162.98	7717.27	7584.89	58.30	
4300.00	4184.38	0.00	0.00	4201.38	124.54	124.54	163.04	7745.15	7609.57	57.13	
4400.00	4280.07	0.00	0.00	4297.07	127.45	127.45	163.11	7773.03	7634.25	56.01	
4500.00	4375.76	0.00	0.00	4392.76	130.36	130.36	163.17	7800.92	7658.94	54.94	
4600.00	4471.45	0.00	0.00	4488.45	133.26	133.26	163.23	7828.83	7683.64	53.92	
4700.00	4567.14	0.00	0.00	4584.14	136.17	136.17	163.29	7856.73	7708.35	52.95	
4800.00	4662.83	0.00	0.00	4679.83	139.07	139.07	163.35	7884.65	7733.07	52.02	
4900.00	4758.52	0.00	0.00	4775.52	141.98	141.98	163.41	7912.58	7757.79	51.12	
5000.00	4854.21	0.00	0.00	4871.21	144.89	144.89	163.47	7940.51	7782.50	50.25	
5100.00	4949.90	0.00	0.00	4966.90	147.79	147.79	163.53	7968.45	7807.22	49.42	
5200.00	5045.59	0.00	0.00	5062.59	150.70	150.70	163.59	7996.40	7831.94	48.62	
5300.00	5141.28	0.00	0.00	5158.28	153.60	153.60	163.65	8024.36	7856.67	47.85	
5400.00	5236.97	0.00	0.00	5253.97	156.51	156.51	163.70	8052.32	7881.41	47.11	
5500.00	5332.66	0.00	0.00	5349.66	159.42	159.42	163.76	8080.29	7906.16	46.40	
5600.00	5428.35	0.00	0.00	5445.35	162.32	162.32	163.82	8108.27	7930.91	45.72	
5700.00	5524.04	0.00	0.00	5541.04	165.23	165.23	163.88	8136.26	7955.67	45.05	

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
5800.00	5619.73	0.00	0.00	5636.73	168.13	168.13	163.93	8164.26	7980.44	44.42	
5900.00	5715.42	0.00	0.00	5732.42	171.04	171.04	163.99	8192.26	8005.22	43.80	
6000.00	5811.11	0.00	0.00	5828.11	173.95	173.95	164.04	8220.27	8030.00	43.20	
6100.00	5906.82	0.00	0.00	5923.82	176.85	176.85	163.34	8248.20	8054.71	42.63	
6200.00	6004.49	0.00	0.00	6021.49	179.82	179.82	149.65	8267.91	8071.22	42.04	
6300.00	6103.97	0.00	0.00	6120.97	182.84	182.84	81.49	8273.81	8073.91	41.39	
6400.00	6203.32	0.00	0.00	6220.32	185.86	185.86	24.43	8265.78	8062.73	40.71	
6500.00	6300.62	0.00	0.00	6317.62	188.81	188.81	12.73	8243.97	8037.88	40.00	
6600.00	6393.97	0.00	0.00	6410.97	191.65	191.65	8.34	8208.82	7999.86	39.28	
6700.00	6481.54	0.00	0.00	6498.54	194.31	194.31	6.06	8161.00	7949.38	38.56	
6800.00	6561.65	0.00	0.00	6578.65	196.74	196.74	4.63	8101.44	7887.42	37.85	
6900.00	6632.73	0.00	0.00	6649.73	198.90	198.90	3.59	8031.30	7815.17	37.16	
7000.00	6693.39	0.00	0.00	6710.39	200.74	200.74	2.69	7951.94	7734.04	36.49	
7100.00	6742.45	0.00	0.00	6759.45	202.23	202.23	1.71	7864.92	7645.60	35.86	
7200.00	6778.97	0.00	0.00	6795.97	203.34	203.34	0.26	7771.91	7551.58	35.27	
7300.00	6802.22	0.00	0.00	6819.22	204.04	204.04	356.78	7674.74	7453.70	34.72	
7400.00	6811.76	0.00	0.00	6828.76	204.33	204.33	323.04	7575.28	7353.97	34.23	
7500.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	7475.31	7254.01	33.78	
7600.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	7375.33	7154.11	33.34	
7700.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	7275.36	7054.17	32.89	
7800.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	7175.38	6954.14	32.43	
7900.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	7075.41	6854.15	31.98	
8000.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	6975.44	6754.19	31.53	
8100.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	6875.46	6654.25	31.08	
8200.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	6775.49	6554.33	30.64	
8300.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	6675.52	6454.33	30.18	
8400.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	6575.55	6354.36	29.73	
8500.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	6475.58	6254.42	29.28	
8600.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	6375.61	6154.50	28.83	
8700.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	6275.65	6054.52	28.38	
8800.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	6175.68	5954.54	27.93	
8900.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	6075.72	5854.57	27.47	
9000.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	5975.75	5754.62	27.02	
9100.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	5875.79	5654.67	26.57	
9200.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	5775.83	5554.74	26.12	
9300.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	5675.87	5454.75	25.67	
9400.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	5575.91	5354.77	25.21	
9500.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	5475.95	5254.80	24.76	
9600.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	5376.00	5154.83	24.31	
9700.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	5276.04	5054.87	23.85	
9800.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	5176.09	4954.91	23.40	
9900.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	5076.14	4854.95	22.95	
10000.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	4976.19	4755.00	22.50	
10100.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	4876.25	4655.05	22.05	
10200.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	4776.30	4555.11	21.59	
10300.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	4676.36	4455.16	21.14	
10400.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	4576.42	4355.22	20.69	
10500.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	4476.49	4255.28	20.24	
10600.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	4376.56	4155.32	19.78	
10700.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	4276.63	4055.36	19.33	
10800.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	4176.70	3955.41	18.87	
10900.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	4076.78	3855.42	18.42	
11000.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	3976.86	3755.42	17.96	
11100.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	3876.94	3655.43	17.50	
11200.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	3777.03	3555.44	17.04	
11300.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	3677.13	3455.44	16.59	
11400.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	3577.23	3355.45	16.13	
11500.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	3477.33	3255.46	15.67	

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
11600.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	3377.45	3155.46	15.21	
11700.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	3277.56	3055.45	14.76	
11800.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	3177.69	2955.44	14.30	
11900.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	3077.83	2855.43	13.84	
12000.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	2977.97	2755.42	13.38	
12100.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	2878.12	2655.41	12.92	
12200.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	2778.29	2555.35	12.46	
12300.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	2678.46	2455.28	12.00	
12400.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	2578.65	2355.21	11.54	
12500.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	2478.86	2255.13	11.08	
12600.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	2379.08	2155.03	10.62	
12700.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	2279.33	2054.89	10.16	
12800.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	2179.59	1954.74	9.69	
12900.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	2079.88	1854.58	9.23	
13000.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	1980.20	1754.41	8.77	
13100.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	1880.56	1654.18	8.31	
13200.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	1780.95	1553.87	7.84	
13300.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	1681.39	1453.46	7.38	
13400.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	1581.88	1353.01	6.91	
13500.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	1482.45	1252.51	6.45	
13600.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	1383.09	1151.85	5.98	
13700.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	1283.83	1051.09	5.52	
13800.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	1184.70	950.04	5.05	
13900.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	1085.73	848.85	4.58	
14000.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	986.96	747.46	4.12	
14100.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	888.48	645.64	3.66	
14200.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	790.37	543.18	3.20	
14300.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	692.80	439.41	2.73	
14400.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	596.04	334.45	2.28	SF(Lo)
14500.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	500.55	227.93	1.84	SF(Lo)
14600.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	407.23	118.86	1.41	SF(Med)
14700.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	318.01	4.86	1.02	SF(Med)
14800.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	237.52	-113.95	0.68	SF(Hi)
14900.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	178.07	-226.81	0.44	SF(Hi)
15000.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	164.31	-261.42	0.39	SF(Hi)
15100.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	205.64	-179.11	0.53	SF(Hi)
15200.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	278.53	-61.68	0.82	SF(Hi)
15300.00	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	364.51	53.78	1.17	SF(Med)
15322.07	6812.00	0.00	0.00	6829.00	204.34	204.34	270.00	384.40	78.34	1.26	SF(Med)
Secondary Well: Goetzel 29-10G6 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	33.00	0.00	0.00	106.94	1526.59	1525.93	2311.65	
100.00	67.00	0.00	0.00	100.00	1.02	1.02	106.94	1526.24	1524.45	854.74	
200.00	167.00	0.00	0.00	200.00	2.54	2.54	106.94	1526.24	1522.71	432.34	
300.00	267.00	0.00	0.00	300.00	5.58	5.58	106.94	1526.24	1519.45	224.87	
400.00	367.00	0.00	0.00	400.00	8.61	8.61	106.94	1526.24	1516.19	151.95	
500.00	467.00	0.00	0.00	500.00	11.65	11.65	106.94	1526.24	1513.11	116.25	
600.00	567.00	0.00	0.00	600.00	14.69	14.69	106.94	1526.24	1509.85	93.14	
700.00	667.00	0.00	0.00	700.00	17.73	17.73	106.94	1526.24	1506.59	77.70	
800.00	767.00	0.00	0.00	800.00	20.76	20.76	106.94	1526.24	1503.34	66.65	
900.00	867.00	0.00	0.00	900.00	23.80	23.80	106.94	1526.24	1500.08	58.35	
1000.00	967.00	0.00	0.00	1000.00	26.84	26.84	106.94	1526.24	1496.82	51.89	
1100.00	1067.00	0.00	0.00	1100.00	29.87	29.87	106.94	1526.24	1493.57	46.72	
1200.00	1167.00	0.00	0.00	1200.00	32.91	32.91	106.94	1526.24	1490.31	42.48	
1300.00	1267.00	0.00	0.00	1300.00	35.95	35.95	106.94	1526.24	1487.05	38.95	
1400.00	1367.00	0.00	0.00	1400.00	38.98	38.98	106.94	1526.24	1483.79	35.96	

5D Anti-Collision Report

Secondary Well: Goetzel 29-10G6 (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
1500.00	1467.00	0.00	0.00	1500.00	42.02	42.02	6.02	1525.80	1480.11	33.39	
1600.00	1566.93	0.00	0.00	1599.93	45.05	45.05	6.05	1522.33	1473.42	31.12	
1700.00	1666.68	0.00	0.00	1699.68	48.08	48.08	6.09	1515.40	1463.26	29.07	
1800.00	1766.13	0.00	0.00	1799.13	51.10	51.10	6.15	1505.00	1449.65	27.19	
1900.00	1865.15	0.00	0.00	1898.15	54.11	54.11	6.24	1491.17	1432.60	25.46	
2000.00	1963.63	0.00	0.00	1996.63	57.10	57.10	6.35	1473.90	1412.13	23.86	
2100.00	2061.44	0.00	0.00	2094.44	60.07	60.07	6.49	1453.24	1388.27	22.37	
2200.00	2158.46	0.00	0.00	2191.46	63.02	63.02	6.66	1429.20	1361.06	20.97	
2300.00	2254.58	0.00	0.00	2287.58	65.94	65.94	6.85	1401.82	1330.51	19.66	
2400.00	2350.27	0.00	0.00	2383.27	68.84	68.84	7.00	1372.97	1298.52	18.44	
2500.00	2445.96	0.00	0.00	2478.96	71.75	71.75	7.15	1344.13	1266.53	17.32	
2600.00	2541.65	0.00	0.00	2574.65	74.66	74.66	7.30	1315.30	1234.54	16.29	
2700.00	2637.34	0.00	0.00	2670.34	77.56	77.56	7.47	1286.48	1202.56	15.33	
2800.00	2733.03	0.00	0.00	2766.03	80.47	80.47	7.64	1257.67	1170.58	14.44	
2900.00	2828.72	0.00	0.00	2861.72	83.37	83.37	7.82	1228.87	1138.61	13.62	
3000.00	2924.41	0.00	0.00	2957.41	86.28	86.28	8.01	1200.08	1106.65	12.84	
3100.00	3020.10	0.00	0.00	3053.10	89.19	89.19	8.21	1171.30	1074.69	12.12	
3200.00	3115.79	0.00	0.00	3148.79	92.09	92.09	8.41	1142.54	1042.75	11.45	
3300.00	3211.48	0.00	0.00	3244.48	95.00	95.00	8.63	1113.79	1010.82	10.82	
3400.00	3307.17	0.00	0.00	3340.17	97.90	97.90	8.86	1085.06	978.90	10.22	
3500.00	3402.86	0.00	0.00	3435.86	100.81	100.81	9.10	1056.34	947.00	9.66	
3600.00	3498.55	0.00	0.00	3531.55	103.72	103.72	9.36	1027.64	915.11	9.13	
3700.00	3594.24	0.00	0.00	3627.24	106.62	106.62	9.63	998.97	883.25	8.63	
3800.00	3689.93	0.00	0.00	3722.93	109.53	109.53	9.92	970.31	851.40	8.16	
3900.00	3785.62	0.00	0.00	3818.62	112.43	112.43	10.22	941.68	819.58	7.71	
4000.00	3881.31	0.00	0.00	3914.31	115.34	115.34	10.54	913.07	787.78	7.29	
4100.00	3977.00	0.00	0.00	4010.00	118.25	118.25	10.89	884.50	756.02	6.88	
4200.00	4072.69	0.00	0.00	4105.69	121.15	121.15	11.25	855.95	724.27	6.50	
4300.00	4168.38	0.00	0.00	4201.38	124.06	124.06	11.65	827.44	692.56	6.13	
4400.00	4264.07	0.00	0.00	4297.07	126.96	126.96	12.07	798.97	660.90	5.79	
4500.00	4359.76	0.00	0.00	4392.76	129.87	129.87	12.52	770.53	629.28	5.45	
4600.00	4455.45	0.00	0.00	4488.45	132.78	132.78	13.00	742.15	597.72	5.14	
4700.00	4551.14	0.00	0.00	4584.14	135.68	135.68	13.52	713.82	566.23	4.84	
4800.00	4646.83	0.00	0.00	4679.83	138.59	138.59	14.09	685.55	534.81	4.55	
4900.00	4742.52	0.00	0.00	4775.52	141.49	141.49	14.71	657.34	503.47	4.27	
5000.00	4838.21	0.00	0.00	4871.21	144.40	144.40	15.37	629.22	471.96	4.00	
5100.00	4933.90	0.00	0.00	4966.90	147.31	147.31	16.11	601.18	440.54	3.74	
5200.00	5029.59	0.00	0.00	5062.59	150.21	150.21	16.91	573.24	409.19	3.49	
5300.00	5125.28	0.00	0.00	5158.28	153.12	153.12	17.79	545.41	377.92	3.26	
5400.00	5220.97	0.00	0.00	5253.97	156.02	156.02	18.77	517.72	346.81	3.03	
5500.00	5316.66	0.00	0.00	5349.66	158.93	158.93	19.86	490.18	315.87	2.81	
5600.00	5412.35	0.00	0.00	5445.35	161.84	161.84	21.07	462.83	285.15	2.60	
5700.00	5508.04	0.00	0.00	5541.04	164.74	164.74	22.44	435.70	254.72	2.41	SF(Lo)
5800.00	5603.73	0.00	0.00	5636.73	167.65	167.65	23.98	408.82	224.60	2.22	SF(Lo)
5900.00	5699.42	0.00	0.00	5732.42	170.55	170.55	25.74	382.27	194.53	2.04	SF(Lo)
6000.00	5795.11	0.00	0.00	5828.11	173.46	173.46	27.75	356.11	164.38	1.86	SF(Lo)
6100.00	5890.82	0.00	0.00	5923.82	176.37	176.37	29.13	330.49	134.92	1.69	SF(Lo)
6200.00	5988.49	0.00	0.00	6021.49	179.33	179.33	15.80	311.21	112.14	1.56	SF(Lo)
6300.00	6087.97	0.00	0.00	6120.97	182.35	182.35	306.88	301.87	99.68	1.49	SF(Med)
6400.00	6187.32	0.00	0.00	6220.32	185.37	185.37	247.85	302.75	97.87	1.48	SF(Med)
6500.00	6284.62	0.00	0.00	6317.62	188.33	188.33	233.23	314.78	108.20	1.52	SF(Lo)
6600.00	6377.97	0.00	0.00	6410.97	191.16	191.16	225.56	339.11	130.04	1.62	SF(Lo)
6700.00	6465.54	0.00	0.00	6498.54	193.82	193.82	220.22	376.56	165.97	1.79	SF(Lo)
6800.00	6545.65	0.00	0.00	6578.65	196.25	196.25	216.45	427.10	214.29	2.01	SF(Lo)
6900.00	6616.73	0.00	0.00	6649.73	198.41	198.41	214.16	489.89	275.20	2.28	SF(Lo)
7000.00	6677.39	0.00	0.00	6710.39	200.25	200.25	213.47	563.51	347.55	2.61	
7100.00	6726.45	0.00	0.00	6759.45	201.74	201.74	214.87	646.17	428.15	2.96	
7200.00	6762.97	0.00	0.00	6795.97	202.85	202.85	219.65	735.90	516.58	3.36	

5D Anti-Collision Report

Secondary Well: Goetzel 29-10G6 (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
7300.00	6786.22	0.00	0.00	6819.22	203.56	203.56	231.70	830.65	610.60	3.77	
7400.00	6795.76	0.00	0.00	6828.76	203.85	203.85	261.59	928.33	708.04	4.21	
7500.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	1026.99	806.78	4.66	
7600.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	1125.89	905.81	5.12	
7700.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	1224.97	1004.82	5.56	
7800.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	1324.19	1103.79	6.01	
7900.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	1423.52	1202.88	6.45	
8000.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	1522.93	1302.11	6.90	
8100.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	1622.42	1401.48	7.34	
8200.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	1721.97	1500.94	7.79	
8300.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	1821.56	1600.40	8.24	
8400.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	1921.20	1699.94	8.68	
8500.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	2020.88	1799.56	9.13	
8600.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	2120.58	1899.24	9.58	
8700.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	2220.31	1998.90	10.03	
8800.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	2320.07	2098.56	10.47	
8900.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	2419.84	2198.26	10.92	
9000.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	2519.63	2297.99	11.37	
9100.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	2619.44	2397.77	11.82	
9200.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	2719.27	2497.56	12.27	
9300.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	2819.10	2597.38	12.71	
9400.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	2918.95	2697.21	13.16	
9500.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	3018.80	2797.02	13.61	
9600.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	3118.67	2896.84	14.06	
9700.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	3218.54	2996.68	14.51	
9800.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	3318.42	3096.51	14.95	
9900.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	3418.31	3196.36	15.40	
10000.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	3518.21	3296.21	15.85	
10100.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	3618.11	3396.08	16.30	
10200.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	3718.02	3495.95	16.74	
10300.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	3817.93	3595.83	17.19	
10400.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	3917.84	3695.72	17.64	
10500.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	4017.76	3795.61	18.09	
10600.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	4117.68	3895.51	18.53	
10700.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	4217.61	3995.41	18.98	
10800.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	4317.54	4095.31	19.43	
10900.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	4417.48	4195.22	19.88	
11000.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	4517.41	4295.13	20.32	
11100.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	4617.35	4395.05	20.77	
11200.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	4717.29	4494.96	21.22	
11300.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	4817.24	4594.88	21.66	
11400.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	4917.19	4694.80	22.11	
11500.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	5017.13	4794.73	22.56	
11600.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	5117.09	4894.65	23.00	
11700.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	5217.04	4994.58	23.45	
11800.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	5316.99	5094.50	23.90	
11900.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	5416.95	5194.43	24.34	
12000.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	5516.91	5294.35	24.79	
12100.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	5616.87	5394.27	25.23	
12200.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	5716.83	5494.19	25.68	
12300.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	5816.79	5594.11	26.12	
12400.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	5916.75	5694.04	26.57	
12500.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	6016.72	5793.96	27.01	
12600.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	6116.68	5893.88	27.45	
12700.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	6216.65	5993.81	27.90	
12800.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	6316.62	6093.73	28.34	
12900.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	6416.58	6193.66	28.78	
13000.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	6516.55	6293.59	29.23	

5D Anti-Collision Report

Secondary Well: Goetzel 29-10G6 (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
13100.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	6616.53	6393.51	29.67	
13200.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	6716.50	6493.44	30.11	
13300.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	6816.47	6593.37	30.55	
13400.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	6916.44	6693.30	31.00	
13500.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	7016.42	6793.23	31.44	
13600.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	7116.39	6893.16	31.88	
13700.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	7216.37	6993.09	32.32	
13800.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	7316.34	7093.02	32.76	
13900.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	7416.32	7192.95	33.20	
14000.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	7516.30	7292.88	33.64	
14100.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	7616.27	7392.81	34.08	
14200.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	7716.25	7492.74	34.52	
14300.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	7816.23	7592.67	34.96	
14400.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	7916.21	7692.60	35.40	
14500.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	8016.19	7792.54	35.84	
14600.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	8116.17	7892.47	36.28	
14700.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	8216.15	7992.40	36.72	
14800.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	8316.13	8092.33	37.16	
14900.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	8416.12	8192.26	37.60	
15000.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	8516.10	8292.19	38.03	
15100.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	8616.08	8392.12	38.47	
15200.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	8716.07	8492.05	38.91	
15300.00	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	8816.05	8591.98	39.35	
15322.07	6796.00	0.00	0.00	6829.00	203.86	203.86	270.00	8838.12	8614.04	39.44	
Secondary Well: Lafarge West 30-35 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	25.00	0.00	0.00	257.36	6859.76	6859.03	9421.43	
100.00	75.00	0.00	0.00	100.00	1.14	1.14	257.36	6859.72	6857.74	3473.30	
200.00	175.00	0.00	0.00	200.00	2.78	2.78	257.36	6859.72	6855.88	1785.63	
300.00	275.00	0.00	0.00	300.00	5.82	5.82	257.36	6859.72	6852.62	966.18	
400.00	375.00	0.00	0.00	400.00	8.86	8.86	257.36	6859.72	6849.36	662.26	
500.00	475.00	0.00	0.00	500.00	11.89	11.89	257.36	6859.72	6846.27	510.23	
600.00	575.00	0.00	0.00	600.00	14.93	14.93	257.36	6859.72	6843.02	410.70	
700.00	675.00	0.00	0.00	700.00	17.97	17.97	257.36	6859.72	6839.76	343.66	
800.00	775.00	0.00	0.00	800.00	21.01	21.01	257.36	6859.72	6836.50	295.44	
900.00	875.00	0.00	0.00	900.00	24.04	24.04	257.36	6859.72	6833.24	259.08	
1000.00	975.00	0.00	0.00	1000.00	27.08	27.08	257.36	6859.72	6829.98	230.69	
1100.00	1075.00	0.00	0.00	1100.00	30.12	30.12	257.36	6859.72	6826.72	207.91	
1200.00	1175.00	0.00	0.00	1200.00	33.15	33.15	257.36	6859.72	6823.47	189.22	
1300.00	1275.00	0.00	0.00	1300.00	36.19	36.19	257.36	6859.72	6820.21	173.62	
1400.00	1375.00	0.00	0.00	1400.00	39.23	39.23	257.36	6859.72	6816.95	160.39	
1500.00	1475.00	0.00	0.00	1500.00	42.26	42.26	156.45	6860.12	6814.10	149.07	
1600.00	1574.93	0.00	0.00	1599.93	45.30	45.30	156.43	6863.32	6814.08	139.39	
1700.00	1674.68	0.00	0.00	1699.68	48.33	48.33	156.40	6869.71	6817.25	130.95	
1800.00	1774.13	0.00	0.00	1799.13	51.35	51.35	156.36	6879.30	6823.61	123.53	
1900.00	1873.15	0.00	0.00	1898.15	54.35	54.35	156.30	6892.06	6833.16	117.01	
2000.00	1971.63	0.00	0.00	1996.63	57.35	57.35	156.23	6908.00	6845.88	111.21	
2100.00	2069.44	0.00	0.00	2094.44	60.32	60.32	156.14	6927.09	6861.77	106.05	
2200.00	2166.46	0.00	0.00	2191.46	63.26	63.26	156.04	6949.31	6880.79	101.42	
2300.00	2262.58	0.00	0.00	2287.58	66.18	66.18	155.93	6974.64	6902.92	97.25	
2400.00	2358.27	0.00	0.00	2383.27	69.09	69.09	156.03	7001.36	6926.45	93.48	
2500.00	2453.96	0.00	0.00	2478.96	71.99	71.99	156.12	7028.09	6949.99	90.00	
2600.00	2549.65	0.00	0.00	2574.65	74.90	74.90	156.22	7054.84	6973.55	86.78	
2700.00	2645.34	0.00	0.00	2670.34	77.81	77.81	156.31	7081.61	6997.11	83.81	
2800.00	2741.03	0.00	0.00	2766.03	80.71	80.71	156.41	7108.40	7020.69	81.04	
2900.00	2836.72	0.00	0.00	2861.72	83.62	83.62	156.50	7135.20	7044.28	78.47	

5D Anti-Collision Report

Secondary Well: Lafarge West 30-35 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
3000.00	2932.41	0.00	0.00	2957.41	86.52	86.52	156.59	7162.02	7067.88	76.07	
3100.00	3028.10	0.00	0.00	3053.10	89.43	89.43	156.68	7188.86	7091.49	73.83	
3200.00	3123.79	0.00	0.00	3148.79	92.33	92.33	156.77	7215.72	7115.13	71.73	
3300.00	3219.48	0.00	0.00	3244.48	95.24	95.24	156.86	7242.59	7138.77	69.76	
3400.00	3315.17	0.00	0.00	3340.17	98.15	98.15	156.95	7269.48	7162.43	67.91	
3500.00	3410.86	0.00	0.00	3435.86	101.05	101.05	157.04	7296.39	7186.11	66.16	
3600.00	3506.55	0.00	0.00	3531.55	103.96	103.96	157.13	7323.31	7209.80	64.51	
3700.00	3602.24	0.00	0.00	3627.24	106.86	106.86	157.22	7350.25	7233.50	62.96	
3800.00	3697.93	0.00	0.00	3722.93	109.77	109.77	157.30	7377.21	7257.22	61.48	
3900.00	3793.62	0.00	0.00	3818.62	112.68	112.68	157.39	7404.18	7280.95	60.09	
4000.00	3889.31	0.00	0.00	3914.31	115.58	115.58	157.47	7431.16	7304.70	58.76	
4100.00	3985.00	0.00	0.00	4010.00	118.49	118.49	157.56	7458.16	7328.47	57.50	
4200.00	4080.69	0.00	0.00	4105.69	121.39	121.39	157.64	7485.18	7352.25	56.31	
4300.00	4176.38	0.00	0.00	4201.38	124.30	124.30	157.73	7512.21	7376.04	55.17	
4400.00	4272.07	0.00	0.00	4297.07	127.21	127.21	157.81	7539.26	7399.85	54.08	
4500.00	4367.76	0.00	0.00	4392.76	130.11	130.11	157.89	7566.32	7423.67	53.04	
4600.00	4463.45	0.00	0.00	4488.45	133.02	133.02	157.98	7593.40	7447.51	52.05	
4700.00	4559.14	0.00	0.00	4584.14	135.92	135.92	158.06	7620.49	7471.36	51.10	
4800.00	4654.83	0.00	0.00	4679.83	138.83	138.83	158.14	7647.60	7495.22	50.19	
4900.00	4750.52	0.00	0.00	4775.52	141.74	141.74	158.22	7674.72	7519.10	49.32	
5000.00	4846.21	0.00	0.00	4871.21	144.64	144.64	158.30	7701.85	7542.99	48.48	
5100.00	4941.90	0.00	0.00	4966.90	147.55	147.55	158.38	7729.00	7566.90	47.68	
5200.00	5037.59	0.00	0.00	5062.59	150.45	150.45	158.46	7756.16	7590.82	46.91	
5300.00	5133.28	0.00	0.00	5158.28	153.36	153.36	158.53	7783.33	7614.75	46.17	
5400.00	5228.97	0.00	0.00	5253.97	156.27	156.27	158.61	7810.52	7638.70	45.46	
5500.00	5324.66	0.00	0.00	5349.66	159.17	159.17	158.69	7837.72	7662.66	44.77	
5600.00	5420.35	0.00	0.00	5445.35	162.08	162.08	158.76	7864.94	7686.64	44.11	
5700.00	5516.04	0.00	0.00	5541.04	164.98	164.98	158.84	7892.16	7710.63	43.47	
5800.00	5611.73	0.00	0.00	5636.73	167.89	167.89	158.92	7919.41	7734.63	42.86	
5900.00	5707.42	0.00	0.00	5732.42	170.80	170.80	158.99	7946.66	7758.65	42.27	
6000.00	5803.11	0.00	0.00	5828.11	173.70	173.70	159.07	7973.92	7782.68	41.69	
6100.00	5898.82	0.00	0.00	5923.82	176.61	176.61	158.40	8001.12	7806.64	41.14	
6200.00	5996.49	0.00	0.00	6021.49	179.58	179.58	144.85	8020.13	7822.46	40.57	
6300.00	6095.97	0.00	0.00	6120.97	182.60	182.60	76.73	8025.40	7824.53	39.95	
6400.00	6195.32	0.00	0.00	6220.32	185.61	185.61	19.61	8016.82	7812.81	39.30	
6500.00	6292.62	0.00	0.00	6317.62	188.57	188.57	7.74	7994.56	7787.51	38.61	
6600.00	6385.97	0.00	0.00	6410.97	191.40	191.40	3.06	7959.04	7749.13	37.92	
6700.00	6473.54	0.00	0.00	6498.54	194.06	194.06	0.32	7910.95	7698.39	37.22	
6800.00	6553.65	0.00	0.00	6578.65	196.50	196.50	358.21	7851.23	7636.28	36.53	
6900.00	6624.73	0.00	0.00	6649.73	198.65	198.65	356.16	7781.05	7564.00	35.85	
7000.00	6685.39	0.00	0.00	6710.39	200.50	200.50	353.70	7701.76	7482.94	35.20	
7100.00	6734.45	0.00	0.00	6759.45	201.99	201.99	350.11	7614.92	7394.66	34.57	
7200.00	6770.97	0.00	0.00	6795.97	203.09	203.09	343.73	7522.22	7300.88	33.99	
7300.00	6794.22	0.00	0.00	6819.22	203.80	203.80	328.86	7425.46	7203.45	33.45	
7400.00	6803.76	0.00	0.00	6828.76	204.09	204.09	283.17	7326.55	7104.28	32.96	
7500.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	7227.19	7004.95	32.52	
7600.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	7127.84	6905.66	32.08	
7700.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	7028.52	6806.36	31.64	
7800.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	6929.22	6707.02	31.19	
7900.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	6829.93	6607.69	30.73	
8000.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	6730.67	6508.39	30.28	
8100.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	6631.43	6409.12	29.83	
8200.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	6532.21	6309.90	29.38	
8300.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	6433.02	6210.67	28.93	
8400.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	6333.85	6111.41	28.47	
8500.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	6234.71	6012.19	28.02	
8600.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	6135.60	5912.97	27.56	
8700.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	6036.52	5813.79	27.10	

5D Anti-Collision Report

Secondary Well: Lafarge West 30-35 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
8800.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	5937.46	5714.64	26.65	
8900.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	5838.44	5615.47	26.18	
9000.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	5739.45	5516.32	25.72	
9100.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	5640.50	5417.21	25.26	
9200.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	5541.59	5318.07	24.79	
9300.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	5442.72	5218.96	24.32	
9400.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	5343.88	5119.89	23.86	
9500.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	5245.10	5020.86	23.39	
9600.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	5146.36	4921.85	22.92	
9700.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	5047.67	4822.82	22.45	
9800.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	4949.03	4723.83	21.98	
9900.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	4850.44	4624.88	21.50	
10000.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	4751.92	4525.97	21.03	
10100.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	4653.46	4427.11	20.56	
10200.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	4555.07	4328.23	20.08	
10300.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	4456.74	4229.40	19.60	
10400.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	4358.50	4130.63	19.13	
10500.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	4260.34	4031.88	18.65	
10600.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	4162.26	3933.16	18.17	
10700.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	4064.28	3834.51	17.69	
10800.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	3966.39	3735.87	17.21	
10900.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	3868.62	3637.26	16.72	
11000.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	3770.96	3538.55	16.23	
11100.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	3673.43	3439.92	15.73	
11200.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	3576.04	3341.37	15.24	
11300.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	3478.79	3242.91	14.75	
11400.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	3381.71	3144.54	14.26	
11500.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	3284.79	3046.27	13.77	
11600.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	3188.07	2948.03	13.28	
11700.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	3091.56	2849.85	12.79	
11800.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	2995.28	2751.80	12.30	
11900.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	2899.25	2653.89	11.82	
12000.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	2803.49	2556.16	11.33	
12100.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	2708.05	2458.62	10.86	
12200.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	2612.94	2361.30	10.38	
12300.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	2518.21	2264.23	9.91	
12400.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	2423.91	2167.44	9.45	
12500.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	2330.08	2070.97	8.99	
12600.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	2236.79	1974.77	8.54	
12700.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	2144.10	1878.76	8.08	
12800.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	2052.10	1782.77	7.62	
12900.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	1960.88	1687.29	7.17	
13000.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	1870.56	1592.43	6.73	
13100.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	1781.27	1498.31	6.29	
13200.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	1693.18	1405.07	5.88	
13300.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	1606.49	1312.82	5.47	
13400.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	1521.43	1221.59	5.07	
13500.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	1438.30	1130.93	4.68	
13600.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	1357.44	1042.17	4.31	
13700.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	1279.29	955.79	3.95	
13800.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	1204.38	871.97	3.62	
13900.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	1133.34	790.29	3.30	
14000.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	1066.96	713.24	3.02	
14100.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	1006.15	640.81	2.75	
14200.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	951.99	574.87	2.52	
14300.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	905.67	516.89	2.33	SF(Lo)
14400.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	868.43	469.22	2.18	SF(Lo)
14500.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	841.49	432.59	2.06	SF(Lo)

5D Anti-Collision Report

Secondary Well: Lafarge West 30-35 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
14600.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	825.87	410.30	1.99	SF(Lo)
14700.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	822.19	402.91	1.96	SF(Lo)
14800.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	830.62	410.01	1.97	SF(Lo)
14900.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	850.81	432.49	2.03	SF(Lo)
15000.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	881.94	468.65	2.13	SF(Lo)
15100.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	922.91	515.68	2.27	SF(Lo)
15200.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	972.47	573.73	2.44	SF(Lo)
15300.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	1029.39	638.21	2.63	
15322.07	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	1042.83	653.54	2.68	
Secondary Well: Firestien #30-45 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	25.00	0.00	0.00	250.22	3782.14	3781.41	5194.49	
100.00	75.00	0.00	0.00	100.00	1.14	1.14	250.22	3782.06	3780.08	1913.70	
200.00	175.00	0.00	0.00	200.00	2.78	2.78	250.22	3782.06	3778.22	983.66	
300.00	275.00	0.00	0.00	300.00	5.82	5.82	250.22	3782.06	3774.95	532.19	
400.00	375.00	0.00	0.00	400.00	8.86	8.86	250.22	3782.06	3771.69	364.78	
500.00	475.00	0.00	0.00	500.00	11.89	11.89	250.22	3782.06	3768.60	281.03	
600.00	575.00	0.00	0.00	600.00	14.93	14.93	250.22	3782.06	3765.34	226.21	
700.00	675.00	0.00	0.00	700.00	17.97	17.97	250.22	3782.06	3762.08	189.28	
800.00	775.00	0.00	0.00	800.00	21.01	21.01	250.22	3782.06	3758.82	162.72	
900.00	875.00	0.00	0.00	900.00	24.04	24.04	250.22	3782.06	3755.56	142.70	
1000.00	975.00	0.00	0.00	1000.00	27.08	27.08	250.22	3782.06	3752.29	127.06	
1100.00	1075.00	0.00	0.00	1100.00	30.12	30.12	250.22	3782.06	3749.03	114.51	
1200.00	1175.00	0.00	0.00	1200.00	33.15	33.15	250.22	3782.06	3745.77	104.22	
1300.00	1275.00	0.00	0.00	1300.00	36.19	36.19	250.22	3782.06	3742.51	95.63	
1400.00	1375.00	0.00	0.00	1400.00	39.23	39.23	250.22	3782.06	3739.25	88.34	
1500.00	1475.00	0.00	0.00	1500.00	42.26	42.26	149.30	3782.44	3736.38	82.13	
1600.00	1574.93	0.00	0.00	1599.93	45.30	45.30	149.30	3785.44	3736.15	76.81	
1700.00	1674.68	0.00	0.00	1699.68	48.33	48.33	149.29	3791.44	3738.93	72.20	
1800.00	1774.13	0.00	0.00	1799.13	51.35	51.35	149.28	3800.44	3744.69	68.18	
1900.00	1873.15	0.00	0.00	1898.15	54.35	54.35	149.26	3812.43	3753.46	64.65	
2000.00	1971.63	0.00	0.00	1996.63	57.35	57.35	149.24	3827.41	3765.22	61.55	
2100.00	2069.44	0.00	0.00	2094.44	60.32	60.32	149.21	3845.38	3779.98	58.80	
2200.00	2166.46	0.00	0.00	2191.46	63.26	63.26	149.17	3866.32	3797.71	56.35	
2300.00	2262.58	0.00	0.00	2287.58	66.18	66.18	149.14	3890.21	3818.41	54.18	
2400.00	2358.27	0.00	0.00	2383.27	69.09	69.09	149.36	3915.45	3840.46	52.21	
2500.00	2453.96	0.00	0.00	2478.96	71.99	71.99	149.57	3940.74	3862.55	50.40	
2600.00	2549.65	0.00	0.00	2574.65	74.90	74.90	149.78	3966.09	3884.68	48.72	
2700.00	2645.34	0.00	0.00	2670.34	77.81	77.81	149.99	3991.48	3906.86	47.17	
2800.00	2741.03	0.00	0.00	2766.03	80.71	80.71	150.19	4016.92	3929.07	45.73	
2900.00	2836.72	0.00	0.00	2861.72	83.62	83.62	150.40	4042.41	3951.34	44.38	
3000.00	2932.41	0.00	0.00	2957.41	86.52	86.52	150.60	4067.95	3973.65	43.14	
3100.00	3028.10	0.00	0.00	3053.10	89.43	89.43	150.79	4093.54	3996.00	41.97	
3200.00	3123.79	0.00	0.00	3148.79	92.33	92.33	150.99	4119.17	4018.40	40.88	
3300.00	3219.48	0.00	0.00	3244.48	95.24	95.24	151.18	4144.84	4040.85	39.86	
3400.00	3315.17	0.00	0.00	3340.17	98.15	98.15	151.37	4170.56	4063.34	38.89	
3500.00	3410.86	0.00	0.00	3435.86	101.05	101.05	151.56	4196.33	4085.87	37.99	
3600.00	3506.55	0.00	0.00	3531.55	103.96	103.96	151.75	4222.13	4108.45	37.14	
3700.00	3602.24	0.00	0.00	3627.24	106.86	106.86	151.93	4247.98	4131.07	36.33	
3800.00	3697.93	0.00	0.00	3722.93	109.77	109.77	152.11	4273.87	4153.73	35.57	
3900.00	3793.62	0.00	0.00	3818.62	112.68	112.68	152.29	4299.80	4176.44	34.86	
4000.00	3889.31	0.00	0.00	3914.31	115.58	115.58	152.47	4325.77	4199.19	34.17	
4100.00	3985.00	0.00	0.00	4010.00	118.49	118.49	152.64	4351.78	4221.97	33.53	
4200.00	4080.69	0.00	0.00	4105.69	121.39	121.39	152.82	4377.82	4244.80	32.91	
4300.00	4176.38	0.00	0.00	4201.38	124.30	124.30	152.99	4403.91	4267.67	32.33	
4400.00	4272.07	0.00	0.00	4297.07	127.21	127.21	153.16	4430.03	4290.55	31.76	

5D Anti-Collision Report

Secondary Well: Firestien #30-45 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
4500.00	4367.76	0.00	0.00	4392.76	130.11	130.11	153.32	4456.18	4313.43	31.22	
4600.00	4463.45	0.00	0.00	4488.45	133.02	133.02	153.49	4482.37	4336.35	30.70	
4700.00	4559.14	0.00	0.00	4584.14	135.92	135.92	153.65	4508.60	4359.30	30.20	
4800.00	4654.83	0.00	0.00	4679.83	138.83	138.83	153.81	4534.86	4382.29	29.72	
4900.00	4750.52	0.00	0.00	4775.52	141.74	141.74	153.97	4561.16	4405.31	29.27	
5000.00	4846.21	0.00	0.00	4871.21	144.64	144.64	154.13	4587.48	4428.37	28.83	
5100.00	4941.90	0.00	0.00	4966.90	147.55	147.55	154.29	4613.85	4451.46	28.41	
5200.00	5037.59	0.00	0.00	5062.59	150.45	150.45	154.44	4640.24	4474.58	28.01	
5300.00	5133.28	0.00	0.00	5158.28	153.36	153.36	154.59	4666.66	4497.74	27.63	
5400.00	5228.97	0.00	0.00	5253.97	156.27	156.27	154.74	4693.12	4520.93	27.26	
5500.00	5324.66	0.00	0.00	5349.66	159.17	159.17	154.89	4719.60	4544.15	26.90	
5600.00	5420.35	0.00	0.00	5445.35	162.08	162.08	155.04	4746.12	4567.40	26.56	
5700.00	5516.04	0.00	0.00	5541.04	164.98	164.98	155.19	4772.66	4590.68	26.23	
5800.00	5611.73	0.00	0.00	5636.73	167.89	167.89	155.33	4799.24	4613.99	25.91	
5900.00	5707.42	0.00	0.00	5732.42	170.80	170.80	155.48	4825.84	4637.33	25.60	
6000.00	5803.11	0.00	0.00	5828.11	173.70	173.70	155.62	4852.47	4660.70	25.30	
6100.00	5898.82	0.00	0.00	5923.82	176.61	176.61	155.03	4879.04	4684.02	25.02	
6200.00	5996.49	0.00	0.00	6021.49	179.58	179.58	141.62	4897.51	4699.28	24.71	
6300.00	6095.97	0.00	0.00	6120.97	182.60	182.60	73.55	4902.33	4700.90	24.34	
6400.00	6195.32	0.00	0.00	6220.32	185.61	185.61	16.41	4893.42	4688.85	23.92	
6500.00	6292.62	0.00	0.00	6317.62	188.57	188.57	4.45	4870.94	4663.34	23.46	
6600.00	6385.97	0.00	0.00	6410.97	191.40	191.40	359.57	4835.31	4624.85	22.98	
6700.00	6473.54	0.00	0.00	6498.54	194.06	194.06	356.53	4787.23	4574.14	22.47	
6800.00	6553.65	0.00	0.00	6578.65	196.50	196.50	353.96	4727.65	4512.17	21.94	
6900.00	6624.73	0.00	0.00	6649.73	198.65	198.65	351.21	4657.71	4440.15	21.41	
7000.00	6685.39	0.00	0.00	6710.39	200.50	200.50	347.68	4578.80	4359.48	20.88	
7100.00	6734.45	0.00	0.00	6759.45	201.99	201.99	342.41	4492.47	4271.74	20.35	
7200.00	6770.97	0.00	0.00	6795.97	203.09	203.09	333.28	4400.41	4178.66	19.84	
7300.00	6794.22	0.00	0.00	6819.22	203.80	203.80	314.85	4304.43	4082.06	19.36	
7400.00	6803.76	0.00	0.00	6828.76	204.09	204.09	278.22	4206.41	3983.81	18.90	
7500.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	4108.06	3885.46	18.45	
7600.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	4009.80	3787.21	18.01	
7700.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	3911.62	3689.05	17.57	
7800.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	3813.53	3590.98	17.14	
7900.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	3715.55	3492.94	16.69	
8000.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	3617.68	3394.99	16.25	
8100.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	3519.92	3297.10	15.80	
8200.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	3422.30	3199.18	15.34	
8300.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	3324.82	3101.33	14.88	
8400.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	3227.49	3003.58	14.41	
8500.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	3130.33	2905.94	13.95	
8600.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	3033.36	2808.43	13.49	
8700.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	2936.59	2711.06	13.02	
8800.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	2840.04	2613.79	12.55	
8900.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	2743.74	2516.74	12.09	
9000.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	2647.71	2419.92	11.62	
9100.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	2551.99	2323.28	11.16	
9200.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	2456.61	2226.87	10.69	
9300.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	2361.61	2130.78	10.23	
9400.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	2267.04	2035.07	9.77	
9500.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	2172.96	1939.62	9.31	
9600.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	2079.44	1844.56	8.85	
9700.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	1986.54	1750.04	8.40	
9800.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	1894.36	1655.46	7.93	
9900.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	1803.02	1561.57	7.47	
10000.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	1712.65	1468.41	7.01	
10100.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	1623.41	1376.15	6.57	
10200.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	1535.49	1285.06	6.13	

5D Anti-Collision Report

Secondary Well: Firestien #30-45 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
10300.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	1449.14	1195.24	5.71	
10400.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	1364.66	1106.42	5.28	
10500.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	1282.41	1019.02	4.87	
10600.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	1202.85	934.19	4.48	
10700.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	1126.56	852.66	4.11	
10800.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	1054.23	773.35	3.75	
10900.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	986.76	698.83	3.43	
11000.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	925.19	629.70	3.13	
11100.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	870.77	567.12	2.87	
11200.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	824.94	512.96	2.64	
11300.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	789.18	470.18	2.47	SF(Lo)
11400.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	764.91	438.78	2.35	SF(Lo)
11500.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	753.24	422.08	2.27	SF(Lo)
11600.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	754.75	421.08	2.26	SF(Lo)
11700.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	769.37	435.75	2.31	SF(Lo)
11800.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	796.37	463.70	2.39	SF(Lo)
11900.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	834.56	505.00	2.53	
12000.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	882.48	557.63	2.72	
12100.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	938.64	618.03	2.93	
12200.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	1001.66	686.56	3.18	
12300.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	1070.33	759.59	3.44	
12400.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	1143.63	837.45	3.74	
12500.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	1220.72	919.50	4.05	
12600.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	1300.94	1003.28	4.37	
12700.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	1383.74	1089.61	4.70	
12800.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	1468.67	1178.11	5.05	
12900.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	1555.40	1268.33	5.42	
13000.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	1643.64	1359.57	5.79	
13100.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	1733.16	1451.33	6.15	
13200.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	1823.77	1544.13	6.52	
13300.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	1915.31	1637.79	6.90	
13400.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	2007.66	1732.17	7.29	
13500.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	2100.70	1827.16	7.68	
13600.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	2194.37	1922.67	8.08	
13700.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	2288.56	2018.63	8.48	
13800.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	2383.23	2114.98	8.88	
13900.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	2478.32	2211.60	9.29	
14000.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	2573.78	2308.15	9.69	
14100.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	2669.58	2404.99	10.09	
14200.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	2765.67	2502.04	10.49	
14300.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	2862.03	2599.28	10.89	
14400.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	2958.63	2696.74	11.30	
14500.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	3055.45	2794.37	11.70	
14600.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	3152.47	2892.16	12.11	
14700.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	3249.66	2990.11	12.52	
14800.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	3347.03	3088.18	12.93	
14900.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	3444.54	3186.38	13.34	
15000.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	3542.20	3284.68	13.76	
15100.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	3639.98	3383.09	14.17	
15200.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	3737.88	3481.59	14.58	
15300.00	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	3835.88	3580.17	15.00	
15322.07	6804.00	0.00	0.00	6829.00	204.10	204.10	270.00	3857.53	3601.94	15.09	
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	0.08	59.75	59.01	81.48	CC (Lo)
100.00	100.00	0.00	0.00	100.00	0.11	0.11	0.08	59.75	58.79	62.63	CC (Lo)

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
200.00	200.00	0.00	0.00	200.00	0.34	0.34	0.08	59.75	58.34	42.57	CC (Lo)
300.00	300.00	0.00	0.00	300.00	0.56	0.56	0.08	59.75	57.90	32.24	CC (Lo)
400.00	400.00	0.00	0.00	400.00	0.79	0.79	0.08	59.75	57.45	25.95	CC (Lo)
500.00	500.00	0.00	0.00	500.00	1.01	1.01	0.08	59.75	57.00	21.71	CC (Lo)
600.00	600.00	0.00	0.00	600.00	1.24	1.24	0.08	59.75	56.55	18.66	CC (Lo)
700.00	700.00	0.00	0.00	700.00	1.46	1.46	0.08	59.75	56.10	16.36	CC (Lo)
800.00	800.00	0.00	0.00	800.00	1.69	1.69	0.08	59.75	55.65	14.57	CC (Lo)
900.00	900.00	0.00	0.00	900.00	1.91	1.91	0.08	59.75	55.20	13.13	CC (Lo)
1000.00	1000.00	0.00	0.00	1000.00	2.14	2.14	0.08	59.75	54.75	11.95	CC (Lo)
1100.00	1100.00	0.00	0.00	1100.00	2.36	2.36	0.08	59.75	54.30	10.96	CC (Lo)
1200.00	1200.00	0.00	0.00	1200.00	2.58	2.58	0.08	59.75	53.85	10.13	CC (Lo)
1300.00	1300.00	0.00	0.00	1300.00	2.81	2.81	0.08	59.75	53.40	9.41	CC (Lo)
1400.00	1400.00	0.00	0.00	1400.00	3.03	3.03	0.08	59.75	52.95	8.79	CC (Lo)
1500.00	1500.00	0.00	0.00	1500.00	3.26	3.26	258.76	59.83	52.60	8.27	CC (Lo)
1600.00	1599.93	0.00	0.00	1599.93	3.48	3.48	255.54	60.61	52.96	7.92	CC (Lo)
1700.00	1699.68	0.00	0.00	1699.68	3.71	3.71	249.41	62.72	54.64	7.76	CC (Lo)
1800.00	1799.13	0.00	0.00	1799.13	3.93	3.93	241.14	67.12	58.60	7.88	
1900.00	1898.80	1.98	78.00	1898.78	4.15	4.14	233.15	74.44	65.50	8.32	
2000.00	1998.81	3.98	78.00	1998.65	4.35	4.34	227.19	84.13	74.74	8.97	
2100.00	2099.12	5.98	78.00	2098.58	4.57	4.54	223.01	95.66	85.81	9.72	
2200.00	2199.72	7.99	78.00	2198.42	4.80	4.74	220.24	108.65	98.32	10.52	
2300.00	2300.57	10.01	78.00	2298.03	5.06	4.93	218.51	122.85	112.01	11.34	
2400.00	2401.88	12.04	78.00	2397.47	5.34	5.13	217.89	136.61	125.21	11.98	
2500.00	2503.64	14.07	78.00	2496.59	5.67	5.33	218.60	148.64	136.59	12.33	
2600.00	2605.60	16.11	78.00	2595.02	6.04	5.53	220.35	159.03	146.25	12.44	
2700.00	2706.30	17.19	78.00	2691.37	6.47	5.75	222.84	168.19	154.55	12.34	
2800.00	2805.62	17.19	78.00	2786.26	6.92	5.99	225.19	177.43	162.85	12.17	
2900.00	2904.94	17.19	78.00	2881.15	7.40	6.24	227.30	186.94	171.39	12.03	
3000.00	3004.27	17.19	78.00	2976.03	7.90	6.49	229.20	196.67	180.12	11.88	
3100.00	3103.59	17.19	78.00	3070.92	8.41	6.74	230.93	206.61	189.00	11.74	
3200.00	3202.91	17.19	78.00	3165.81	8.94	7.00	232.49	216.71	198.01	11.59	
3300.00	3302.23	17.19	78.00	3260.69	9.48	7.27	233.92	226.96	207.15	11.46	
3400.00	3401.55	17.19	78.00	3355.58	10.03	7.53	235.22	237.33	216.41	11.34	
3500.00	3500.87	17.19	78.00	3450.47	10.59	7.80	236.41	247.82	225.78	11.24	
3600.00	3600.19	17.19	78.00	3545.36	11.16	8.07	237.51	258.40	235.20	11.14	
3700.00	3699.52	17.19	78.00	3640.24	11.73	8.35	238.52	269.07	244.70	11.04	
3800.00	3798.84	17.19	78.00	3735.13	12.30	8.62	239.45	279.82	254.27	10.95	
3900.00	3898.16	17.19	78.00	3830.02	12.88	8.90	240.31	290.63	263.91	10.88	
4000.00	3997.48	17.19	78.00	3924.90	13.47	9.18	241.11	301.51	273.61	10.81	
4100.00	4096.80	17.19	78.00	4019.79	14.05	9.46	241.86	312.44	283.36	10.74	
4200.00	4196.12	17.19	78.00	4114.68	14.65	9.75	242.55	323.42	293.14	10.68	
4300.00	4295.45	17.19	78.00	4209.56	15.24	10.03	243.20	334.44	302.96	10.62	
4400.00	4394.77	17.19	78.00	4304.45	15.83	10.32	243.81	345.50	312.82	10.57	
4500.00	4494.09	17.19	78.00	4399.34	16.43	10.60	244.38	356.60	322.71	10.52	
4600.00	4593.41	17.19	78.00	4494.22	17.03	10.89	244.92	367.73	332.64	10.48	
4700.00	4692.73	17.19	78.00	4589.11	17.63	11.18	245.42	378.89	342.59	10.44	
4800.00	4792.05	17.19	78.00	4684.00	18.23	11.47	245.90	390.08	352.58	10.40	
4900.00	4891.37	17.19	78.00	4778.88	18.84	11.76	246.35	401.30	362.58	10.37	
5000.00	4990.70	17.19	78.00	4873.77	19.44	12.05	246.77	412.53	372.61	10.33	
5100.00	5090.02	17.19	78.00	4968.66	20.05	12.34	247.17	423.79	382.65	10.30	
5200.00	5189.34	17.19	78.00	5063.54	20.66	12.63	247.55	435.07	392.70	10.27	
5300.00	5288.66	17.19	78.00	5158.43	21.26	12.93	247.91	446.36	402.76	10.24	
5400.00	5387.98	17.19	78.00	5253.32	21.87	13.22	248.26	457.67	412.85	10.21	
5500.00	5487.30	17.19	78.00	5348.20	22.48	13.51	248.59	469.00	422.95	10.18	
5600.00	5586.63	17.19	78.00	5443.09	23.09	13.81	248.90	480.34	433.06	10.16	
5700.00	5685.95	17.19	78.00	5537.98	23.70	14.10	249.19	491.70	443.19	10.14	
5800.00	5785.27	17.19	78.00	5632.86	24.32	14.40	249.48	503.07	453.33	10.12	
5900.00	5884.59	17.19	78.00	5727.75	24.93	14.69	249.75	514.45	463.49	10.10	

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
6000.00	5983.91	17.19	78.00	5822.64	25.54	14.99	250.01	525.84	473.65	10.08	
6100.00	6083.23	17.19	78.00	5917.52	26.15	15.29	249.40	537.23	483.82	10.06	
6200.00	6182.01	17.19	78.00	6011.89	26.76	15.58	235.88	547.88	493.40	10.06	
6300.00	6278.48	17.19	78.00	6104.05	27.36	15.87	169.28	557.88	502.45	10.06	
6400.00	6370.77	17.19	78.00	6192.22	27.93	16.15	114.80	568.72	512.60	10.14	
6500.00	6461.67	12.07	73.97	6279.84	28.34	16.41	106.22	582.30	525.85	10.31	
6600.00	6558.95	4.82	52.40	6376.02	28.60	16.46	104.95	599.03	542.60	10.61	
6700.00	6664.16	5.22	298.47	6481.02	28.68	16.19	105.76	618.42	562.43	11.05	
6800.00	6779.35	13.92	278.01	6594.52	28.59	15.54	107.38	639.63	584.50	11.60	
6900.00	6906.92	24.01	273.05	6715.01	28.32	14.43	109.36	661.56	607.52	12.24	
7000.00	7049.30	35.34	270.76	6838.52	27.92	12.83	111.44	682.71	629.97	12.94	
7100.00	7208.26	48.03	269.36	6956.99	27.54	10.91	113.37	701.30	649.67	13.58	
7200.00	7383.51	62.02	268.35	7057.20	27.49	9.35	114.87	715.37	664.27	14.00	
7300.00	7571.18	77.02	267.52	7122.67	28.15	9.38	115.64	723.12	671.31	13.96	
7400.00	7749.18	90.00	266.89	7141.00	29.48	11.06	115.55	723.61	669.93	13.48	
7500.00	7849.17	90.00	266.89	7141.00	30.54	11.53	115.57	722.96	667.41	13.01	
7600.00	7949.17	90.00	266.89	7141.00	31.79	12.03	115.59	722.41	664.56	12.49	
7700.00	8049.17	90.00	266.89	7141.00	33.24	12.54	115.61	721.86	661.38	11.94	
7800.00	8149.17	90.00	266.89	7141.00	34.85	13.08	115.63	721.30	657.91	11.38	
7900.00	8249.16	90.00	266.89	7141.00	36.60	13.64	115.65	720.75	654.18	10.83	
8000.00	8349.16	90.00	266.89	7141.00	38.47	14.22	115.67	720.20	650.25	10.30	
8100.00	8449.16	90.00	266.89	7141.00	40.46	14.81	115.69	719.64	646.12	9.79	
8200.00	8549.16	90.00	266.89	7141.00	42.53	15.41	115.71	719.09	641.84	9.31	
8300.00	8649.16	90.00	266.89	7141.00	44.69	16.02	115.74	718.54	637.43	8.86	
8400.00	8749.16	90.00	266.89	7141.00	46.91	16.64	115.76	717.98	632.90	8.44	
8500.00	8849.15	90.00	266.89	7141.00	49.19	17.27	115.78	717.43	628.23	8.04	
8600.00	8949.15	90.00	266.89	7141.00	51.52	17.91	115.80	716.88	623.41	7.67	
8700.00	9049.15	90.00	266.89	7141.00	53.90	18.56	115.82	716.33	618.53	7.32	
8800.00	9149.15	90.00	266.89	7141.00	56.32	19.21	115.84	715.77	613.57	7.00	
8900.00	9249.15	90.00	266.89	7141.00	58.77	19.87	115.86	715.22	608.56	6.71	
9000.00	9349.14	90.00	266.89	7141.00	61.25	20.53	115.89	714.67	603.50	6.43	
9100.00	9449.14	90.00	266.89	7141.00	63.75	21.20	115.91	714.12	598.40	6.17	
9200.00	9549.14	90.00	266.89	7141.00	66.28	21.87	115.93	713.56	593.26	5.93	
9300.00	9649.14	90.00	266.89	7141.00	68.83	22.54	115.95	713.01	588.09	5.71	
9400.00	9749.14	90.00	266.89	7141.00	71.40	23.22	115.97	712.46	582.88	5.50	
9500.00	9849.13	90.00	266.89	7141.00	73.99	23.91	115.99	711.91	577.65	5.30	
9600.00	9949.13	90.00	266.89	7141.00	76.59	24.59	116.01	711.36	572.40	5.12	
9700.00	10049.13	90.00	266.89	7141.00	79.20	25.28	116.04	710.80	567.12	4.95	
9800.00	10149.13	90.00	266.89	7141.00	81.83	25.97	116.06	710.25	561.83	4.79	
9900.00	10249.13	90.00	266.89	7141.00	84.47	26.66	116.08	709.70	556.52	4.63	
10000.00	10349.13	90.00	266.89	7141.00	87.11	27.36	116.10	709.15	551.20	4.49	
10100.00	10449.12	90.00	266.89	7141.00	89.77	28.05	116.12	708.60	545.86	4.35	
10200.00	10549.12	90.00	266.89	7141.00	92.44	28.75	116.15	708.05	540.51	4.23	
10300.00	10649.12	90.00	266.89	7141.00	95.11	29.45	116.17	707.50	535.14	4.10	
10400.00	10749.12	90.00	266.89	7141.00	97.79	30.15	116.19	706.95	529.77	3.99	
10500.00	10849.12	90.00	266.89	7141.00	100.48	30.86	116.21	706.40	524.39	3.88	
10600.00	10949.11	90.00	266.89	7141.00	103.17	31.56	116.23	705.85	519.00	3.78	
10700.00	11049.11	90.00	266.89	7141.00	105.87	32.27	116.26	705.29	513.60	3.68	
10800.00	11149.11	90.00	266.89	7141.00	108.57	32.97	116.28	704.74	508.19	3.59	
10900.00	11249.11	90.00	266.89	7141.00	111.28	33.68	116.30	704.19	502.78	3.50	
11000.00	11349.11	90.00	266.89	7141.00	113.99	34.39	116.32	703.64	497.36	3.41	
11100.00	11449.10	90.00	266.89	7141.00	116.71	35.10	116.34	703.09	491.94	3.33	
11200.00	11549.10	90.00	266.89	7141.00	119.43	35.81	116.37	702.54	486.52	3.25	
11300.00	11649.10	90.00	266.89	7141.00	122.15	36.53	116.39	701.99	481.08	3.18	
11400.00	11749.10	90.00	266.89	7141.00	124.88	37.24	116.41	701.44	475.65	3.11	
11500.00	11849.10	90.00	266.89	7141.00	127.61	37.95	116.43	700.89	470.21	3.04	
11600.00	11949.10	90.00	266.89	7141.00	130.34	38.67	116.46	700.34	464.77	2.97	
11700.00	12049.09	90.00	266.89	7141.00	133.08	39.38	116.48	699.79	459.33	2.91	

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
11800.00	12149.09	90.00	266.89	7141.00	135.81	40.10	116.50	699.25	453.88	2.85	
11900.00	12249.09	90.00	266.89	7141.00	138.55	40.81	116.52	698.70	448.43	2.79	
12000.00	12349.09	90.00	266.89	7141.00	141.30	41.53	116.55	698.15	442.98	2.74	
12100.00	12449.09	90.00	266.89	7141.00	144.04	42.25	116.57	697.60	437.53	2.68	
12200.00	12549.08	90.00	266.89	7141.00	146.79	42.97	116.59	697.05	432.07	2.63	
12300.00	12649.08	90.00	266.89	7141.00	149.54	43.68	116.61	696.50	426.62	2.58	
12400.00	12749.08	90.00	266.89	7141.00	152.29	44.40	116.64	695.95	421.16	2.53	
12500.00	12849.08	90.00	266.89	7141.00	155.04	45.12	116.66	695.40	415.70	2.49	SF(Lo)
12600.00	12949.08	90.00	266.89	7141.00	157.80	45.84	116.68	694.85	410.24	2.44	SF(Lo)
12700.00	13049.07	90.00	266.89	7141.00	160.55	46.56	116.70	694.31	404.78	2.40	SF(Lo)
12800.00	13149.07	90.00	266.89	7141.00	163.31	47.28	116.73	693.76	399.32	2.36	SF(Lo)
12900.00	13249.07	90.00	266.89	7141.00	166.07	48.01	116.75	693.21	393.86	2.32	SF(Lo)
13000.00	13349.07	90.00	266.89	7141.00	168.83	48.73	116.77	692.66	388.40	2.28	SF(Lo)
13100.00	13449.07	90.00	266.89	7141.00	171.59	49.45	116.80	692.11	382.94	2.24	SF(Lo)
13200.00	13549.07	90.00	266.89	7141.00	174.35	50.17	116.82	691.56	377.48	2.20	SF(Lo)
13300.00	13649.06	90.00	266.89	7141.00	177.12	50.89	116.84	691.02	372.02	2.17	SF(Lo)
13400.00	13749.06	90.00	266.89	7141.00	179.88	51.62	116.86	690.47	366.56	2.13	SF(Lo)
13500.00	13849.06	90.00	266.89	7141.00	182.65	52.34	116.89	689.92	361.10	2.10	SF(Lo)
13600.00	13949.06	90.00	266.89	7141.00	185.41	53.06	116.91	689.37	355.64	2.07	SF(Lo)
13700.00	14049.06	90.00	266.89	7141.00	188.18	53.79	116.93	688.83	350.18	2.03	SF(Lo)
13800.00	14149.05	90.00	266.89	7141.00	190.95	54.51	116.96	688.28	344.72	2.00	SF(Lo)
13900.00	14249.05	90.00	266.89	7141.00	193.72	55.23	116.98	687.73	339.26	1.97	SF(Lo)
14000.00	14349.05	90.00	266.89	7141.00	196.49	55.96	117.00	687.19	333.80	1.94	SF(Lo)
14100.00	14449.05	90.00	266.89	7141.00	199.26	56.68	117.03	686.64	328.35	1.92	SF(Lo)
14200.00	14549.05	90.00	266.89	7141.00	202.03	57.41	117.05	686.09	322.89	1.89	SF(Lo)
14300.00	14649.04	90.00	266.89	7141.00	204.81	58.13	117.07	685.55	317.44	1.86	SF(Lo)
14400.00	14749.04	90.00	266.89	7141.00	207.58	58.86	117.10	685.00	311.98	1.84	SF(Lo)
14500.00	14849.04	90.00	266.89	7141.00	210.35	59.58	117.12	684.45	306.53	1.81	SF(Lo)
14600.00	14949.04	90.00	266.89	7141.00	213.13	60.31	117.14	683.91	301.08	1.79	SF(Lo)
14700.00	15049.04	90.00	266.89	7141.00	215.90	61.04	117.17	683.36	295.62	1.76	SF(Lo)
14800.00	15149.03	90.00	266.89	7141.00	218.68	61.76	117.19	682.81	290.17	1.74	SF(Lo)
14900.00	15249.03	90.00	266.89	7141.00	221.45	62.49	117.21	682.27	284.72	1.72	SF(Lo)
15000.00	15349.03	90.00	266.89	7141.00	224.23	63.21	117.24	681.72	279.28	1.69	SF(Lo)
15100.00	15449.03	90.00	266.89	7141.00	227.01	63.94	117.26	681.18	273.83	1.67	SF(Lo)
15200.00	15549.03	90.00	266.89	7141.00	229.79	64.67	117.28	680.63	268.38	1.65	SF(Lo)
15300.00	15644.54	90.00	266.89	7141.00	232.44	65.36	117.31	680.10	263.09	1.63	SF(Lo)
15322.07	15644.54	90.00	266.89	7141.00	232.44	65.36	117.31	680.48	263.31	1.63	SF(Lo)
Secondary Well: Goetzel 32N-30B-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	0.00	0.00	0.00	359.95	39.71	38.98	54.15	CC (Lo)
100.00	100.00	0.00	0.00	100.00	0.11	0.11	359.95	39.71	38.76	41.63	CC (Lo)
200.00	200.00	0.00	0.00	200.00	0.34	0.34	359.95	39.71	38.31	28.29	CC (Lo)
300.00	300.00	0.00	0.00	300.00	0.56	0.56	359.95	39.71	37.86	21.43	CC (Lo)
400.00	400.00	0.00	0.00	400.00	0.79	0.79	359.95	39.71	37.41	17.25	CC (Lo)
500.00	500.00	0.00	0.00	500.00	1.01	1.01	359.95	39.71	36.96	14.43	CC (Lo)
600.00	600.00	0.00	0.00	600.00	1.24	1.24	359.95	39.71	36.51	12.40	CC (Lo)
700.00	700.00	0.00	0.00	700.00	1.46	1.46	359.95	39.71	36.06	10.88	CC (Lo)
800.00	800.00	0.00	0.00	800.00	1.69	1.69	359.95	39.71	35.61	9.68	CC (Lo)
900.00	900.00	0.00	0.00	900.00	1.91	1.91	359.95	39.71	35.16	8.73	CC (Lo)
1000.00	1000.00	0.00	0.00	1000.00	2.14	2.14	359.95	39.71	34.71	7.94	CC (Lo)
1100.00	1100.00	0.00	0.00	1100.00	2.36	2.36	359.95	39.71	34.26	7.29	CC (Lo)
1200.00	1200.00	0.00	0.00	1200.00	2.58	2.58	359.95	39.71	33.81	6.73	CC (Lo)
1300.00	1300.00	0.00	0.00	1300.00	2.81	2.81	359.95	39.71	33.36	6.25	CC (Lo)
1400.00	1400.00	0.00	0.00	1400.00	3.03	3.03	359.95	39.71	32.91	5.84	CC (Lo)
1500.00	1500.00	0.00	0.00	1500.00	3.26	3.26	258.42	39.80	32.56	5.50	CC (Lo)
1600.00	1599.93	0.00	0.00	1599.93	3.48	3.48	253.62	40.64	32.99	5.31	CC (Lo)

5D Anti-Collision Report

Secondary Well: Goetzel 32N-30B-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
1700.00	1699.68	0.00	0.00	1699.68	3.71	3.71	244.75	43.13	35.06	5.34	CC (Lo)
1800.00	1799.13	0.00	0.00	1799.13	3.93	3.93	233.65	48.53	40.04	5.71	CC (Lo)
1900.00	1898.15	0.00	0.00	1898.15	4.15	4.15	222.67	57.91	48.96	6.47	CC (Lo)
2000.00	1996.63	0.00	0.00	1996.63	4.38	4.38	213.42	71.71	62.32	7.64	
2100.00	2096.67	1.93	85.04	2096.65	4.59	4.59	206.86	88.69	78.86	9.03	
2200.00	2197.39	3.95	85.04	2197.24	4.79	4.78	202.89	106.91	96.68	10.45	
2300.00	2298.74	5.97	85.04	2298.20	5.01	4.98	200.48	125.89	115.22	11.80	
2400.00	2401.06	8.02	85.04	2399.75	5.24	5.17	199.23	143.60	132.47	12.91	
2500.00	2504.44	10.09	85.04	2501.84	5.50	5.37	199.00	158.43	146.82	13.65	
2600.00	2608.64	12.17	85.04	2604.07	5.79	5.57	199.53	170.30	158.20	14.08	
2700.00	2713.39	14.27	85.04	2706.04	6.12	5.77	200.69	179.24	166.62	14.21	
2800.00	2818.40	16.37	85.04	2807.32	6.51	5.97	202.47	185.34	172.09	13.99	
2900.00	2923.41	18.47	85.04	2907.50	6.95	6.17	204.86	188.79	174.83	13.53	
3000.00	3023.67	18.74	85.04	3002.46	7.43	6.41	207.52	190.85	176.13	12.97	
3100.00	3123.26	18.74	85.04	3096.78	7.93	6.65	210.10	193.29	177.65	12.36	
3200.00	3222.86	18.74	85.04	3191.09	8.46	6.90	212.62	196.12	179.52	11.82	
3300.00	3322.45	18.74	85.04	3285.41	9.02	7.16	215.06	199.31	181.75	11.35	
3400.00	3422.04	18.74	85.04	3379.72	9.58	7.42	217.41	202.86	184.16	10.85	
3500.00	3521.63	18.74	85.04	3474.04	10.16	7.69	219.69	206.74	186.89	10.41	
3600.00	3621.22	18.74	85.04	3568.35	10.76	7.96	221.88	210.93	189.92	10.04	
3700.00	3720.81	18.74	85.04	3662.66	11.36	8.23	223.98	215.43	193.23	9.70	
3800.00	3820.41	18.74	85.04	3756.98	11.97	8.51	225.99	220.20	196.69	9.37	
3900.00	3920.00	18.74	85.04	3851.29	12.59	8.79	227.91	225.23	200.41	9.07	
4000.00	4019.59	18.74	85.04	3945.61	13.22	9.07	229.75	230.50	204.37	8.82	
4100.00	4119.18	18.74	85.04	4039.92	13.85	9.36	231.51	236.01	208.57	8.60	
4200.00	4218.77	18.74	85.04	4134.24	14.48	9.64	233.18	241.72	212.99	8.41	
4300.00	4318.36	18.74	85.04	4228.55	15.12	9.93	234.78	247.63	217.55	8.23	
4400.00	4417.96	18.74	85.04	4322.87	15.77	10.22	236.30	253.73	222.24	8.06	
4500.00	4517.55	18.74	85.04	4417.18	16.41	10.52	237.75	259.99	227.11	7.91	
4600.00	4617.14	18.74	85.04	4511.50	17.06	10.81	239.13	266.42	232.15	7.77	
4700.00	4716.73	18.74	85.04	4605.81	17.71	11.11	240.45	272.99	237.35	7.66	
4800.00	4816.32	18.74	85.04	4700.13	18.37	11.40	241.70	279.70	242.69	7.56	
4900.00	4915.92	18.74	85.04	4794.44	19.02	11.70	242.89	286.53	248.16	7.47	
5000.00	5015.51	18.74	85.04	4888.76	19.68	12.00	244.03	293.49	253.77	7.39	
5100.00	5115.10	18.74	85.04	4983.07	20.34	12.30	245.12	300.55	259.49	7.32	
5200.00	5214.69	18.74	85.04	5077.39	21.00	12.60	246.15	307.72	265.33	7.26	
5300.00	5314.28	18.74	85.04	5171.70	21.66	12.90	247.14	314.98	271.24	7.20	
5400.00	5413.87	18.74	85.04	5266.01	22.32	13.20	248.08	322.33	277.21	7.14	
5500.00	5513.47	18.74	85.04	5360.33	22.99	13.51	248.98	329.77	283.26	7.09	
5600.00	5613.06	18.74	85.04	5454.64	23.65	13.81	249.84	337.28	289.39	7.04	
5700.00	5712.65	18.74	85.04	5548.96	24.32	14.11	250.67	344.87	295.60	7.00	
5800.00	5812.24	18.74	85.04	5643.27	24.99	14.42	251.45	352.52	301.89	6.96	
5900.00	5911.83	18.74	85.04	5737.59	25.65	14.72	252.21	360.24	308.24	6.93	
6000.00	6011.43	18.74	85.04	5831.90	26.32	15.03	252.93	368.01	314.67	6.90	
6100.00	6111.01	18.74	85.04	5926.21	26.99	15.34	252.80	375.84	321.16	6.87	
6200.00	6209.76	18.33	85.00	6019.73	27.65	15.65	240.31	383.57	327.69	6.86	
6300.00	6308.04	10.47	83.65	6114.85	28.12	15.92	174.17	391.89	335.18	6.91	
6400.00	6409.01	2.44	73.44	6215.10	28.35	15.89	119.08	400.96	343.94	7.03	
6500.00	6512.89	5.96	272.07	6318.83	28.41	15.54	109.26	410.53	353.60	7.21	
6600.00	6619.86	14.50	268.86	6424.01	28.32	14.88	106.62	420.29	363.71	7.43	
6700.00	6730.03	23.31	267.99	6528.13	28.12	13.90	105.96	429.91	373.91	7.68	
6800.00	6843.40	32.38	267.57	6628.28	27.85	12.67	105.99	438.99	383.78	7.95	
6900.00	6959.84	41.69	267.32	6721.13	27.59	11.31	106.27	447.15	392.80	8.23	
7000.00	7079.03	51.22	267.14	6803.14	27.44	10.00	106.59	454.01	400.29	8.45	
7100.00	7200.49	60.94	267.00	6870.84	27.49	9.08	106.83	459.26	405.70	8.57	
7200.00	7323.55	70.78	266.88	6921.10	27.89	8.89	106.92	462.63	408.65	8.57	
7300.00	7447.41	80.69	266.78	6951.57	28.62	9.60	106.84	463.96	408.95	8.43	
7400.00	7569.78	90.00	266.69	6961.00	29.63	10.91	106.57	463.21	406.58	8.18	

5D Anti-Collision Report

Secondary Well: Goetzel 32N-30B-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
7500.00	7669.78	90.00	266.69	6961.00	30.72	11.40	106.59	462.23	403.59	7.88	
7600.00	7769.77	90.00	266.69	6961.00	32.00	11.90	106.63	461.30	400.29	7.56	
7700.00	7869.77	90.00	266.69	6961.00	33.46	12.43	106.66	460.37	396.61	7.22	
7800.00	7969.76	90.00	266.69	6961.00	35.09	12.98	106.70	459.44	392.61	6.87	
7900.00	8069.76	90.00	266.69	6961.00	36.85	13.55	106.73	458.51	388.32	6.53	
8000.00	8169.75	90.00	266.69	6961.00	38.74	14.13	106.77	457.59	383.80	6.20	
8100.00	8269.75	90.00	266.69	6961.00	40.73	14.73	106.80	456.66	379.06	5.89	
8200.00	8369.74	90.00	266.69	6961.00	42.82	15.33	106.84	455.73	374.15	5.59	
8300.00	8469.74	90.00	266.69	6961.00	44.98	15.95	106.87	454.80	369.09	5.31	
8400.00	8569.74	90.00	266.69	6961.00	47.21	16.58	106.91	453.88	363.90	5.04	
8500.00	8669.73	90.00	266.69	6961.00	49.49	17.22	106.94	452.95	358.60	4.80	
8600.00	8769.73	90.00	266.69	6961.00	51.83	17.86	106.98	452.02	353.21	4.57	
8700.00	8869.72	90.00	266.69	6961.00	54.21	18.51	107.02	451.09	347.73	4.36	
8800.00	8969.72	90.00	266.69	6961.00	56.63	19.16	107.05	450.17	342.18	4.17	
8900.00	9069.71	90.00	266.69	6961.00	59.08	19.83	107.09	449.24	336.57	3.99	
9000.00	9169.71	90.00	266.69	6961.00	61.56	20.49	107.12	448.31	330.90	3.82	
9100.00	9269.70	90.00	266.69	6961.00	64.07	21.16	107.16	447.39	325.19	3.66	
9200.00	9369.70	90.00	266.69	6961.00	66.60	21.84	107.20	446.46	319.44	3.51	
9300.00	9469.69	90.00	266.69	6961.00	69.15	22.52	107.23	445.54	313.65	3.38	
9400.00	9569.69	90.00	266.69	6961.00	71.72	23.20	107.27	444.61	307.83	3.25	
9500.00	9669.68	90.00	266.69	6961.00	74.31	23.88	107.31	443.68	301.98	3.13	
9600.00	9769.68	90.00	266.69	6961.00	76.91	24.57	107.35	442.76	296.11	3.02	
9700.00	9869.67	90.00	266.69	6961.00	79.52	25.26	107.38	441.83	290.21	2.91	
9800.00	9969.67	90.00	266.69	6961.00	82.15	25.95	107.42	440.91	284.30	2.82	
9900.00	10069.66	90.00	266.69	6961.00	84.79	26.65	107.46	439.98	278.36	2.72	
10000.00	10169.66	90.00	266.69	6961.00	87.44	27.34	107.50	439.06	272.41	2.63	
10100.00	10269.66	90.00	266.69	6961.00	90.09	28.04	107.54	438.14	266.44	2.55	
10200.00	10369.65	90.00	266.69	6961.00	92.76	28.74	107.57	437.21	260.47	2.47	SF(Lo)
10300.00	10469.65	90.00	266.69	6961.00	95.43	29.45	107.61	436.29	254.48	2.40	SF(Lo)
10400.00	10569.64	90.00	266.69	6961.00	98.11	30.15	107.65	435.36	248.47	2.33	SF(Lo)
10500.00	10669.64	90.00	266.69	6961.00	100.79	30.85	107.69	434.44	242.46	2.26	SF(Lo)
10600.00	10769.63	90.00	266.69	6961.00	103.49	31.56	107.73	433.52	236.44	2.20	SF(Lo)
10700.00	10869.63	90.00	266.69	6961.00	106.18	32.27	107.77	432.59	230.42	2.14	SF(Lo)
10800.00	10969.62	90.00	266.69	6961.00	108.89	32.98	107.81	431.67	224.38	2.08	SF(Lo)
10900.00	11069.62	90.00	266.69	6961.00	111.59	33.69	107.85	430.75	218.34	2.03	SF(Lo)
11000.00	11169.61	90.00	266.69	6961.00	114.30	34.40	107.89	429.82	212.30	1.98	SF(Lo)
11100.00	11269.61	90.00	266.69	6961.00	117.02	35.11	107.93	428.90	206.25	1.93	SF(Lo)
11200.00	11369.60	90.00	266.69	6961.00	119.74	35.82	107.97	427.98	200.19	1.88	SF(Lo)
11300.00	11469.60	90.00	266.69	6961.00	122.46	36.53	108.01	427.06	194.13	1.83	SF(Lo)
11400.00	11569.59	90.00	266.69	6961.00	125.19	37.25	108.05	426.14	188.07	1.79	SF(Lo)
11500.00	11669.59	90.00	266.69	6961.00	127.92	37.96	108.09	425.21	182.00	1.75	SF(Lo)
11600.00	11769.58	90.00	266.69	6961.00	130.65	38.68	108.13	424.29	175.93	1.71	SF(Lo)
11700.00	11869.58	90.00	266.69	6961.00	133.38	39.39	108.17	423.37	169.86	1.67	SF(Lo)
11800.00	11969.58	90.00	266.69	6961.00	136.12	40.11	108.21	422.45	163.79	1.63	SF(Lo)
11900.00	12069.57	90.00	266.69	6961.00	138.86	40.83	108.25	421.53	157.71	1.60	SF(Lo)
12000.00	12169.57	90.00	266.69	6961.00	141.60	41.55	108.29	420.61	151.64	1.56	SF(Lo)
12100.00	12269.56	90.00	266.69	6961.00	144.35	42.26	108.33	419.69	145.56	1.53	SF(Lo)
12200.00	12369.56	90.00	266.69	6961.00	147.09	42.98	108.37	418.77	139.48	1.50	SF(Med)
12300.00	12469.55	90.00	266.69	6961.00	149.84	43.70	108.42	417.85	133.40	1.47	SF(Med)
12400.00	12569.55	90.00	266.69	6961.00	152.59	44.42	108.46	416.93	127.32	1.44	SF(Med)
12500.00	12669.54	90.00	266.69	6961.00	155.34	45.14	108.50	416.01	121.24	1.41	SF(Med)
12600.00	12769.54	90.00	266.69	6961.00	158.10	45.86	108.54	415.09	115.16	1.38	SF(Med)
12700.00	12869.53	90.00	266.69	6961.00	160.85	46.58	108.59	414.17	109.08	1.36	SF(Med)
12800.00	12969.53	90.00	266.69	6961.00	163.61	47.31	108.63	413.25	103.00	1.33	SF(Med)
12900.00	13069.52	90.00	266.69	6961.00	166.37	48.03	108.67	412.34	96.92	1.31	SF(Med)
13000.00	13169.52	90.00	266.69	6961.00	169.12	48.75	108.71	411.42	90.84	1.28	SF(Med)
13100.00	13269.51	90.00	266.69	6961.00	171.88	49.47	108.76	410.50	84.76	1.26	SF(Med)
13200.00	13369.51	90.00	266.69	6961.00	174.65	50.20	108.80	409.58	78.68	1.24	SF(Med)

5D Anti-Collision Report

Secondary Well: Goetzel 32N-30B-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
13300.00	13469.51	90.00	266.69	6961.00	177.41	50.92	108.85	408.66	72.60	1.22	SF(Med)
13400.00	13569.50	90.00	266.69	6961.00	180.17	51.64	108.89	407.75	66.53	1.19	SF(Med)
13500.00	13669.50	90.00	266.69	6961.00	182.94	52.37	108.93	406.83	60.45	1.17	SF(Med)
13600.00	13769.49	90.00	266.69	6961.00	185.70	53.09	108.98	405.91	54.38	1.15	SF(Med)
13700.00	13869.49	90.00	266.69	6961.00	188.47	53.81	109.02	405.00	48.31	1.14	SF(Med)
13800.00	13969.48	90.00	266.69	6961.00	191.24	54.54	109.07	404.08	42.24	1.12	SF(Med)
13900.00	14069.48	90.00	266.69	6961.00	194.00	55.26	109.11	403.16	36.17	1.10	SF(Med)
14000.00	14169.47	90.00	266.69	6961.00	196.77	55.99	109.16	402.25	30.10	1.08	SF(Med)
14100.00	14269.47	90.00	266.69	6961.00	199.54	56.71	109.20	401.33	24.04	1.06	SF(Med)
14200.00	14369.46	90.00	266.69	6961.00	202.31	57.44	109.25	400.42	17.97	1.05	SF(Med)
14300.00	14469.46	90.00	266.69	6961.00	205.09	58.16	109.29	399.50	11.91	1.03	SF(Med)
14400.00	14569.45	90.00	266.69	6961.00	207.86	58.89	109.34	398.59	5.86	1.01	SF(Med)
14500.00	14669.45	90.00	266.69	6961.00	210.63	59.62	109.39	397.67	-0.20	1.00	SF(Hi)
14600.00	14769.44	90.00	266.69	6961.00	213.40	60.34	109.43	396.76	-6.26	0.98	SF(Hi)
14700.00	14869.44	90.00	266.69	6961.00	216.18	61.07	109.48	395.85	-12.31	0.97	SF(Hi)
14800.00	14969.43	90.00	266.69	6961.00	218.95	61.79	109.53	394.93	-18.36	0.96	SF(Hi)
14900.00	15069.43	90.00	266.69	6961.00	221.73	62.52	109.57	394.02	-24.40	0.94	SF(Hi)
15000.00	15169.43	90.00	266.69	6961.00	224.50	63.25	109.62	393.10	-30.45	0.93	SF(Hi)
15100.00	15269.42	90.00	266.69	6961.00	227.28	63.97	109.67	392.19	-36.49	0.91	SF(Hi)
15200.00	15369.42	90.00	266.69	6961.00	230.06	64.70	109.72	391.28	-42.53	0.90	SF(Hi)
15300.00	15469.41	90.00	266.69	6961.00	232.84	65.43	109.76	390.37	-48.56	0.89	SF(Hi)
15322.07	15473.86	90.00	266.69	6961.00	232.96	65.46	109.77	390.56	-48.48	0.89	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	0.36	19.67	18.94	26.83	CC (Med)
100.00	100.00	0.00	0.00	100.00	0.11	0.11	0.36	19.67	18.72	20.62	CC (Med)
200.00	200.00	0.00	0.00	200.00	0.34	0.34	0.36	19.67	18.27	14.02	CC (Med)
300.00	300.00	0.00	0.00	300.00	0.56	0.56	0.36	19.67	17.82	10.62	CC (Med)
400.00	400.00	0.00	0.00	400.00	0.79	0.79	0.36	19.67	17.37	8.54	CC (Med)
500.00	500.00	0.00	0.00	500.00	1.01	1.01	0.36	19.67	16.92	7.15	CC (Med)
600.00	600.00	0.00	0.00	600.00	1.24	1.24	0.36	19.67	16.47	6.14	CC (Med)
700.00	700.00	0.00	0.00	700.00	1.46	1.46	0.36	19.67	16.02	5.39	CC (Med)
800.00	800.00	0.00	0.00	800.00	1.69	1.69	0.36	19.67	15.57	4.80	CC (Med)
900.00	900.00	0.00	0.00	900.00	1.91	1.91	0.36	19.67	15.12	4.32	CC (Med)
1000.00	1000.00	0.00	0.00	1000.00	2.14	2.14	0.36	19.67	14.67	3.93	CC (Med)
1100.00	1100.00	0.00	0.00	1100.00	2.36	2.36	0.36	19.67	14.22	3.61	CC (Med)
1200.00	1200.00	0.00	0.00	1200.00	2.58	2.58	0.36	19.67	13.78	3.34	CC (Med)
1300.00	1300.00	0.00	0.00	1300.00	2.81	2.81	0.36	19.67	13.33	3.10	CC (Med)
1400.00	1400.00	0.00	0.00	1400.00	3.03	3.03	0.36	19.67	12.88	2.89	CC (Med)
1500.00	1500.00	0.00	0.00	1500.00	3.26	3.26	258.20	19.76	12.53	2.73	CC (Med)
1600.00	1599.93	0.00	0.00	1599.93	3.48	3.48	248.76	20.76	13.11	2.71	CC (Med)
1700.00	1699.68	0.00	0.00	1699.68	3.71	3.71	233.24	24.18	16.10	2.99	CC (Med)
1800.00	1799.86	2.00	92.75	1799.83	3.92	3.92	220.24	30.40	21.92	3.59	CC (Med)
1900.00	1900.33	4.01	92.75	1900.16	4.12	4.11	212.55	37.92	29.05	4.27	CC (Lo)
2000.00	2001.10	6.02	92.75	2000.54	4.34	4.30	208.00	46.14	36.84	4.96	CC (Lo)
2100.00	2102.16	8.04	92.75	2100.84	4.57	4.50	205.33	54.77	45.05	5.63	CC (Lo)
2200.00	2203.52	10.07	92.75	2200.93	4.82	4.69	203.82	63.68	53.52	6.27	CC (Lo)
2300.00	2305.17	12.10	92.75	2300.68	5.11	4.89	203.05	72.79	62.16	6.85	
2400.00	2407.22	14.14	92.75	2400.06	5.44	5.09	203.28	80.29	69.17	7.22	
2500.00	2509.61	16.19	92.75	2498.88	5.83	5.29	204.75	84.77	73.09	7.26	
2600.00	2610.42	16.91	92.75	2595.39	6.27	5.51	207.10	86.98	74.64	7.05	
2700.00	2710.33	16.91	92.75	2690.99	6.73	5.76	209.39	89.14	76.10	6.84	
2800.00	2810.25	16.91	92.75	2786.58	7.21	6.00	211.57	91.45	77.63	6.62	
2900.00	2910.16	16.91	92.75	2882.18	7.72	6.25	213.64	93.87	79.22	6.41	
3000.00	3010.08	16.91	92.75	2977.77	8.24	6.51	215.61	96.42	80.88	6.20	
3100.00	3109.99	16.91	92.75	3073.37	8.78	6.77	217.47	99.07	82.60	6.01	

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
3200.00	3209.91	16.91	92.75	3168.96	9.33	7.03	219.23	101.82	84.36	5.83	
3300.00	3309.82	16.91	92.75	3264.56	9.88	7.30	220.90	104.67	86.17	5.66	
3400.00	3409.73	16.91	92.75	3360.16	10.44	7.57	222.48	107.59	88.04	5.50	
3500.00	3509.65	16.91	92.75	3455.75	11.01	7.84	223.97	110.60	89.97	5.36	
3600.00	3609.56	16.91	92.75	3551.35	11.59	8.12	225.39	113.67	91.93	5.23	
3700.00	3709.48	16.91	92.75	3646.94	12.17	8.39	226.73	116.82	93.94	5.11	
3800.00	3809.39	16.91	92.75	3742.54	12.75	8.67	227.99	120.02	96.00	5.00	
3900.00	3909.31	16.91	92.75	3838.13	13.34	8.95	229.20	123.27	98.09	4.90	
4000.00	4009.22	16.91	92.75	3933.73	13.93	9.23	230.34	126.58	100.21	4.80	
4100.00	4109.14	16.91	92.75	4029.32	14.52	9.52	231.42	129.94	102.37	4.71	
4200.00	4209.05	16.91	92.75	4124.92	15.12	9.80	232.44	133.34	104.58	4.64	
4300.00	4308.96	16.91	92.75	4220.51	15.72	10.09	233.42	136.78	106.82	4.57	
4400.00	4408.88	16.91	92.75	4316.11	16.32	10.38	234.35	140.26	109.07	4.50	
4500.00	4508.79	16.91	92.75	4411.70	16.92	10.66	235.23	143.77	111.35	4.43	
4600.00	4608.71	16.91	92.75	4507.30	17.52	10.95	236.07	147.32	113.66	4.38	
4700.00	4708.62	16.91	92.75	4602.90	18.13	11.24	236.87	150.89	116.00	4.32	
4800.00	4808.54	16.91	92.75	4698.49	18.73	11.53	237.63	154.50	118.36	4.28	
4900.00	4908.45	16.91	92.75	4794.09	19.34	11.82	238.36	158.13	120.76	4.23	
5000.00	5008.36	16.91	92.75	4889.68	19.94	12.12	239.05	161.78	123.18	4.19	
5100.00	5108.28	16.91	92.75	4985.28	20.55	12.41	239.72	165.46	125.61	4.15	
5200.00	5208.19	16.91	92.75	5080.87	21.16	12.70	240.35	169.16	128.04	4.11	
5300.00	5308.11	16.91	92.75	5176.47	21.77	13.00	240.96	172.87	130.50	4.08	
5400.00	5408.02	16.91	92.75	5272.06	22.38	13.29	241.54	176.61	132.97	4.05	
5500.00	5507.94	16.91	92.75	5367.66	22.99	13.58	242.10	180.36	135.47	4.02	
5600.00	5607.85	16.91	92.75	5463.25	23.61	13.88	242.64	184.14	137.98	3.99	
5700.00	5707.77	16.91	92.75	5558.85	24.22	14.17	243.15	187.92	140.51	3.96	
5800.00	5807.68	16.91	92.75	5654.44	24.83	14.47	243.65	191.72	143.05	3.94	
5900.00	5907.59	16.91	92.75	5750.04	25.45	14.77	244.12	195.54	145.61	3.92	
6000.00	6007.51	16.91	92.75	5845.64	26.06	15.06	244.58	199.36	148.18	3.90	
6100.00	6107.42	16.91	92.75	5941.23	26.67	15.36	244.24	203.19	150.76	3.88	
6200.00	6206.82	16.91	92.75	6036.33	27.29	15.66	233.00	205.67	151.66	3.81	
6300.00	6303.54	13.28	94.51	6129.26	27.82	15.96	170.46	207.77	151.99	3.72	
6400.00	6401.23	5.65	105.65	6225.56	28.10	16.05	119.37	212.17	155.30	3.73	
6500.00	6502.31	3.31	232.88	6326.48	28.21	15.85	113.42	218.96	161.84	3.83	
6600.00	6607.14	11.28	257.41	6430.39	28.15	15.33	114.37	227.75	171.21	4.03	
6700.00	6716.01	19.92	261.59	6535.16	27.95	14.49	116.92	237.94	182.64	4.30	
6800.00	6829.15	28.95	263.35	6638.05	27.66	13.35	119.75	248.78	195.26	4.65	
6900.00	6946.63	38.33	264.35	6735.75	27.34	11.99	122.40	259.49	207.90	5.03	
7000.00	7068.31	48.05	265.02	6824.36	27.08	10.57	124.68	269.26	219.69	5.43	
7100.00	7193.79	58.08	265.53	6899.66	27.00	9.39	126.49	277.36	229.49	5.79	
7200.00	7322.36	68.36	265.95	6957.51	27.26	8.88	127.79	283.16	236.38	6.05	
7300.00	7453.04	78.81	266.32	6994.38	27.92	9.35	128.55	286.19	239.46	6.12	
7400.00	7584.60	89.33	266.66	7007.95	28.93	10.69	128.76	286.20	238.46	5.99	
7500.00	7686.61	90.00	266.68	7008.00	29.97	11.23	128.86	285.32	235.89	5.77	
7600.00	7786.60	90.00	266.68	7008.00	31.21	11.73	128.98	284.55	233.14	5.53	
7700.00	7886.60	90.00	266.68	7008.00	32.64	12.24	129.11	283.79	230.10	5.29	
7800.00	7986.59	90.00	266.68	7008.00	34.24	12.78	129.23	283.02	226.82	5.04	
7900.00	8086.59	90.00	266.68	7008.00	35.99	13.34	129.36	282.26	223.33	4.79	
8000.00	8186.58	90.00	266.68	7008.00	37.86	13.91	129.49	281.50	219.67	4.55	
8100.00	8286.58	90.00	266.68	7008.00	39.85	14.50	129.61	280.74	215.87	4.33	
8200.00	8386.57	90.00	266.68	7008.00	41.92	15.10	129.74	279.98	211.94	4.11	
8300.00	8486.57	90.00	266.68	7008.00	44.08	15.71	129.87	279.23	207.92	3.92	
8400.00	8586.56	90.00	266.68	7008.00	46.30	16.33	130.00	278.47	203.81	3.73	
8500.00	8686.56	90.00	266.68	7008.00	48.58	16.96	130.13	277.72	199.64	3.56	
8600.00	8786.55	90.00	266.68	7008.00	50.92	17.60	130.26	276.97	195.42	3.40	
8700.00	8886.55	90.00	266.68	7008.00	53.30	18.25	130.40	276.22	191.15	3.25	
8800.00	8986.54	90.00	266.68	7008.00	55.72	18.90	130.53	275.47	186.85	3.11	
8900.00	9086.54	90.00	266.68	7008.00	58.17	19.56	130.66	274.72	182.51	2.98	

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
9000.00	9186.53	90.00	266.68	7008.00	60.65	20.22	130.80	273.98	178.14	2.86	
9100.00	9286.53	90.00	266.68	7008.00	63.16	20.89	130.93	273.23	173.74	2.75	
9200.00	9386.52	90.00	266.68	7008.00	65.69	21.56	131.07	272.49	169.29	2.64	
9300.00	9486.52	90.00	266.68	7008.00	68.24	22.23	131.20	271.75	164.78	2.54	
9400.00	9586.51	90.00	266.68	7008.00	70.81	22.91	131.34	271.01	160.25	2.45	SF(Lo)
9500.00	9686.51	90.00	266.68	7008.00	73.40	23.60	131.48	270.27	155.71	2.36	SF(Lo)
9600.00	9786.50	90.00	266.68	7008.00	76.00	24.28	131.62	269.53	151.17	2.28	SF(Lo)
9700.00	9886.50	90.00	266.68	7008.00	78.62	24.97	131.76	268.80	146.63	2.20	SF(Lo)
9800.00	9986.49	90.00	266.68	7008.00	81.25	25.66	131.90	268.06	142.09	2.13	SF(Lo)
9900.00	10086.49	90.00	266.68	7008.00	83.89	26.36	132.04	267.33	137.55	2.06	SF(Lo)
10000.00	10186.48	90.00	266.68	7008.00	86.54	27.05	132.18	266.60	133.03	2.00	SF(Lo)
10100.00	10286.48	90.00	266.68	7008.00	89.20	27.75	132.32	265.87	128.51	1.94	SF(Lo)
10200.00	10386.48	90.00	266.68	7008.00	91.86	28.45	132.46	265.14	123.99	1.88	SF(Lo)
10300.00	10486.47	90.00	266.68	7008.00	94.54	29.15	132.61	264.42	119.49	1.82	SF(Lo)
10400.00	10586.47	90.00	266.68	7008.00	97.22	29.85	132.75	263.70	115.00	1.77	SF(Lo)
10500.00	10686.46	90.00	266.68	7008.00	99.90	30.55	132.90	262.97	110.52	1.72	SF(Lo)
10600.00	10786.46	90.00	266.68	7008.00	102.60	31.26	133.04	262.25	106.05	1.68	SF(Lo)
10700.00	10886.45	90.00	266.68	7008.00	105.30	31.97	133.19	261.54	101.59	1.64	SF(Lo)
10800.00	10986.45	90.00	266.68	7008.00	108.00	32.67	133.34	260.82	97.15	1.59	SF(Lo)
10900.00	11086.44	90.00	266.68	7008.00	110.71	33.38	133.49	260.10	92.72	1.55	SF(Lo)
11000.00	11186.44	90.00	266.68	7008.00	113.42	34.09	133.64	259.39	88.31	1.52	SF(Lo)
11100.00	11286.43	90.00	266.68	7008.00	116.14	34.80	133.79	258.68	83.92	1.48	SF(Med)
11200.00	11386.43	90.00	266.68	7008.00	118.86	35.51	133.94	257.97	79.54	1.45	SF(Med)
11300.00	11486.42	90.00	266.68	7008.00	121.58	36.23	134.09	257.26	75.18	1.41	SF(Med)
11400.00	11586.42	90.00	266.68	7008.00	124.31	36.94	134.24	256.55	70.84	1.38	SF(Med)
11500.00	11686.41	90.00	266.68	7008.00	127.04	37.65	134.40	255.85	66.51	1.35	SF(Med)
11600.00	11786.41	90.00	266.68	7008.00	129.77	38.37	134.55	255.15	62.21	1.32	SF(Med)
11700.00	11886.40	90.00	266.68	7008.00	132.51	39.08	134.71	254.45	57.92	1.29	SF(Med)
11800.00	11986.40	90.00	266.68	7008.00	135.25	39.80	134.86	253.75	53.66	1.27	SF(Med)
11900.00	12086.39	90.00	266.68	7008.00	137.99	40.52	135.02	253.05	49.41	1.24	SF(Med)
12000.00	12186.39	90.00	266.68	7008.00	140.73	41.23	135.18	252.36	45.19	1.22	SF(Med)
12100.00	12286.38	90.00	266.68	7008.00	143.48	41.95	135.34	251.66	40.99	1.19	SF(Med)
12200.00	12386.38	90.00	266.68	7008.00	146.23	42.67	135.50	250.97	36.81	1.17	SF(Med)
12300.00	12486.37	90.00	266.68	7008.00	148.97	43.39	135.66	250.28	32.65	1.15	SF(Med)
12400.00	12586.37	90.00	266.68	7008.00	151.73	44.11	135.82	249.60	28.52	1.13	SF(Med)
12500.00	12686.36	90.00	266.68	7008.00	154.48	44.83	135.98	248.91	24.41	1.11	SF(Med)
12600.00	12786.36	90.00	266.68	7008.00	157.23	45.55	136.15	248.23	20.32	1.09	SF(Med)
12700.00	12886.35	90.00	266.68	7008.00	159.99	46.27	136.31	247.55	16.26	1.07	SF(Med)
12800.00	12986.35	90.00	266.68	7008.00	162.74	46.99	136.48	246.87	12.22	1.05	SF(Med)
12900.00	13086.34	90.00	266.68	7008.00	165.50	47.71	136.64	246.19	8.21	1.03	SF(Med)
13000.00	13186.34	90.00	266.68	7008.00	168.26	48.43	136.81	245.52	4.22	1.02	SF(Med)
13100.00	13286.33	90.00	266.68	7008.00	171.02	49.16	136.98	244.85	0.26	1.00	SF(Med)
13200.00	13386.33	90.00	266.68	7008.00	173.79	49.88	137.15	244.18	-3.67	0.99	SF(Hi)
13300.00	13486.33	90.00	266.68	7008.00	176.55	50.60	137.32	243.51	-7.58	0.97	SF(Hi)
13400.00	13586.32	90.00	266.68	7008.00	179.31	51.32	137.49	242.84	-11.46	0.95	SF(Hi)
13500.00	13686.32	90.00	266.68	7008.00	182.08	52.05	137.66	242.18	-15.31	0.94	SF(Hi)
13600.00	13786.31	90.00	266.68	7008.00	184.85	52.77	137.83	241.51	-19.14	0.93	SF(Hi)
13700.00	13886.31	90.00	266.68	7008.00	187.61	53.50	138.00	240.85	-22.93	0.91	SF(Hi)
13800.00	13986.30	90.00	266.68	7008.00	190.38	54.22	138.18	240.20	-26.70	0.90	SF(Hi)
13900.00	14086.30	90.00	266.68	7008.00	193.15	54.94	138.35	239.54	-30.44	0.89	SF(Hi)
14000.00	14186.29	90.00	266.68	7008.00	195.92	55.67	138.53	238.89	-34.14	0.87	SF(Hi)
14100.00	14286.29	90.00	266.68	7008.00	198.69	56.39	138.71	238.24	-37.82	0.86	SF(Hi)
14200.00	14386.28	90.00	266.68	7008.00	201.46	57.12	138.89	237.59	-41.47	0.85	SF(Hi)
14300.00	14486.28	90.00	266.68	7008.00	204.23	57.84	139.07	236.94	-45.08	0.84	SF(Hi)
14400.00	14586.27	90.00	266.68	7008.00	207.01	58.57	139.25	236.30	-48.67	0.83	SF(Hi)
14500.00	14686.27	90.00	266.68	7008.00	209.78	59.30	139.43	235.66	-52.22	0.82	SF(Hi)
14600.00	14786.26	90.00	266.68	7008.00	212.55	60.02	139.61	235.02	-55.74	0.81	SF(Hi)
14700.00	14886.26	90.00	266.68	7008.00	215.33	60.75	139.79	234.38	-59.23	0.80	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
14800.00	14986.25	90.00	266.68	7008.00	218.10	61.47	139.98	233.75	-62.68	0.79	SF(Hi)
14900.00	15086.25	90.00	266.68	7008.00	220.88	62.20	140.16	233.12	-66.11	0.78	SF(Hi)
15000.00	15186.24	90.00	266.68	7008.00	223.66	62.93	140.35	232.49	-69.49	0.77	SF(Hi)
15100.00	15286.24	90.00	266.68	7008.00	226.43	63.65	140.54	231.86	-72.84	0.76	SF(Hi)
15200.00	15386.23	90.00	266.68	7008.00	229.21	64.38	140.72	231.24	-76.16	0.75	SF(Hi)
15300.00	15486.23	90.00	266.68	7008.00	231.99	65.11	140.91	230.61	-79.45	0.74	SF(Hi)
15322.07	15501.26	90.00	266.68	7008.00	232.41	65.22	140.94	230.59	-79.59	0.74	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	180.35	20.04	19.31	27.33	CC (Med)
100.00	100.00	0.00	0.00	100.00	0.11	0.11	180.35	20.04	19.08	21.01	CC (Med)
200.00	200.00	0.00	0.00	200.00	0.34	0.34	180.35	20.04	18.64	14.28	CC (Med)
300.00	300.00	0.00	0.00	300.00	0.56	0.56	180.35	20.04	18.19	10.81	CC (Med)
400.00	400.00	0.00	0.00	400.00	0.79	0.79	180.35	20.04	17.74	8.70	CC (Med)
500.00	500.00	0.00	0.00	500.00	1.01	1.01	180.35	20.04	17.29	7.28	CC (Med)
600.00	600.00	0.00	0.00	600.00	1.24	1.24	180.35	20.04	16.84	6.26	CC (Med)
700.00	700.00	0.00	0.00	700.00	1.46	1.46	180.35	20.04	16.39	5.49	CC (Med)
800.00	800.00	0.00	0.00	800.00	1.69	1.69	180.35	20.04	15.94	4.89	CC (Med)
900.00	900.00	0.00	0.00	900.00	1.91	1.91	180.35	20.04	15.49	4.40	CC (Med)
1000.00	1000.00	0.00	0.00	1000.00	2.14	2.14	180.35	20.04	15.04	4.01	CC (Med)
1100.00	1100.00	0.00	0.00	1100.00	2.36	2.36	180.35	20.04	14.59	3.68	CC (Med)
1200.00	1200.00	0.00	0.00	1200.00	2.58	2.58	180.35	20.04	14.14	3.40	CC (Med)
1300.00	1300.00	0.00	0.00	1300.00	2.81	2.81	180.35	20.04	13.69	3.16	CC (Med)
1400.00	1399.75	1.99	107.85	1399.73	3.02	3.01	175.74	20.63	13.86	3.05	CC (Med)
1500.00	1499.29	3.99	107.85	1499.12	3.21	3.20	63.74	22.91	15.73	3.19	CC (Med)
1600.00	1598.62	5.97	107.85	1598.08	3.42	3.39	54.73	26.45	18.89	3.50	CC (Med)
1700.00	1697.78	7.96	107.85	1696.50	3.65	3.58	48.54	30.76	22.80	3.86	CC (Med)
1800.00	1796.75	9.93	107.85	1794.26	3.90	3.77	44.44	35.59	27.20	4.25	CC (Lo)
1900.00	1895.54	11.91	107.85	1891.26	4.19	3.97	41.81	40.77	31.97	4.63	CC (Lo)
2000.00	1994.14	13.88	107.85	1987.37	4.53	4.17	40.21	46.23	36.98	5.00	CC (Lo)
2100.00	2092.56	15.85	107.85	2082.49	4.92	4.37	39.33	51.92	42.18	5.33	CC (Lo)
2200.00	2192.11	16.27	107.85	2178.07	5.36	4.61	39.54	56.91	46.59	5.51	CC (Lo)
2300.00	2292.04	16.27	107.85	2274.00	5.84	4.85	41.86	59.34	48.33	5.39	CC (Lo)
2400.00	2391.98	16.27	107.85	2369.93	6.33	5.10	45.03	60.75	48.95	5.15	CC (Lo)
2500.00	2491.91	16.27	107.85	2465.86	6.85	5.36	48.05	62.34	49.68	4.92	CC (Lo)
2600.00	2591.85	16.27	107.85	2561.80	7.38	5.61	50.91	64.09	50.51	4.72	CC (Lo)
2700.00	2691.78	16.27	107.85	2657.73	7.92	5.88	53.61	66.00	51.42	4.53	
2800.00	2791.72	16.27	107.85	2753.66	8.47	6.14	56.15	68.04	52.39	4.35	
2900.00	2891.65	16.27	107.85	2849.59	9.02	6.41	58.54	70.21	53.46	4.19	
3000.00	2991.59	16.27	107.85	2945.52	9.59	6.69	60.79	72.49	54.58	4.05	
3100.00	3091.52	16.27	107.85	3041.45	10.15	6.96	62.89	74.88	55.81	3.93	
3200.00	3191.46	16.27	107.85	3137.38	10.72	7.24	64.87	77.37	57.09	3.82	
3300.00	3291.39	16.27	107.85	3233.31	11.30	7.52	66.71	79.94	58.44	3.72	
3400.00	3391.33	16.27	107.85	3329.24	11.87	7.80	68.45	82.58	59.87	3.64	
3500.00	3491.26	16.27	107.85	3425.18	12.45	8.08	70.07	85.30	61.35	3.56	
3600.00	3591.20	16.27	107.85	3521.11	13.04	8.36	71.59	88.08	62.89	3.50	
3700.00	3691.13	16.27	107.85	3617.04	13.62	8.64	73.02	90.92	64.48	3.44	
3800.00	3791.07	16.27	107.85	3712.97	14.21	8.93	74.36	93.82	66.13	3.39	
3900.00	3891.00	16.27	107.85	3808.90	14.79	9.22	75.62	96.76	67.80	3.34	
4000.00	3990.94	16.27	107.85	3904.83	15.38	9.50	76.80	99.74	69.52	3.30	
4100.00	4090.87	16.27	107.85	4000.76	15.97	9.79	77.91	102.77	71.28	3.26	
4200.00	4190.81	16.27	107.85	4096.69	16.56	10.08	78.97	105.83	73.08	3.23	
4300.00	4290.74	16.27	107.85	4192.62	17.15	10.37	79.96	108.93	74.93	3.20	
4400.00	4390.68	16.27	107.85	4288.56	17.75	10.66	80.89	112.06	76.81	3.18	
4500.00	4490.61	16.27	107.85	4384.49	18.34	10.95	81.78	115.21	78.72	3.16	
4600.00	4590.54	16.27	107.85	4480.42	18.93	11.24	82.62	118.39	80.66	3.14	

5D Anti-Collision Report

Secondary Well: Goetzel 12N-30B-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
4700.00	4690.48	16.27	107.85	4576.35	19.53	11.53	83.41	121.60	82.61	3.12	
4800.00	4790.41	16.27	107.85	4672.28	20.12	11.82	84.16	124.82	84.58	3.10	
4900.00	4890.35	16.27	107.85	4768.21	20.72	12.11	84.88	128.07	86.57	3.09	
5000.00	4990.28	16.27	107.85	4864.14	21.32	12.40	85.56	131.34	88.59	3.07	
5100.00	5090.22	16.27	107.85	4960.07	21.91	12.70	86.20	134.62	90.63	3.06	
5200.00	5190.15	16.27	107.85	5056.00	22.51	12.99	86.82	137.92	92.69	3.05	
5300.00	5290.09	16.27	107.85	5151.94	23.11	13.28	87.41	141.24	94.77	3.04	
5400.00	5390.02	16.27	107.85	5247.87	23.71	13.58	87.97	144.57	96.86	3.03	
5500.00	5489.96	16.27	107.85	5343.80	24.30	13.87	88.50	147.91	98.98	3.02	
5600.00	5589.89	16.27	107.85	5439.73	24.90	14.17	89.01	151.27	101.10	3.02	
5700.00	5689.83	16.27	107.85	5535.66	25.50	14.46	89.50	154.63	103.22	3.01	
5800.00	5789.76	16.27	107.85	5631.59	26.10	14.76	89.97	158.01	105.35	3.00	
5900.00	5889.70	16.27	107.85	5727.52	26.70	15.05	90.42	161.40	107.50	2.99	
6000.00	5989.63	16.27	107.85	5823.45	27.30	15.35	90.85	164.80	109.65	2.99	
6100.00	6089.57	16.27	107.85	5919.39	27.90	15.64	90.49	168.18	111.81	2.98	
6200.00	6189.23	16.27	107.85	6015.06	28.50	15.94	74.43	169.44	112.30	2.97	
6300.00	6284.80	11.62	117.72	6107.48	28.96	16.20	0.55	169.33	112.16	2.96	
6400.00	6380.83	6.51	156.36	6202.36	29.12	16.23	297.55	171.18	114.79	3.04	
6500.00	6479.30	8.33	219.22	6300.14	29.05	16.01	280.03	175.22	120.33	3.19	
6600.00	6580.43	15.03	242.76	6399.18	28.79	15.50	270.19	181.32	128.24	3.42	
6700.00	6684.44	22.87	251.57	6497.49	28.38	14.71	262.99	189.10	137.99	3.70	
6800.00	6791.49	31.18	256.09	6592.78	27.87	13.65	257.32	198.08	148.92	4.03	
6900.00	6901.65	39.84	258.92	6682.36	27.34	12.36	252.79	207.65	160.01	4.36	
7000.00	7014.91	48.80	260.91	6763.32	26.90	10.99	249.20	217.22	170.53	4.65	
7100.00	7131.12	58.01	262.46	6832.52	26.69	9.75	246.46	226.17	179.75	4.87	
7200.00	7249.98	67.45	263.75	6886.92	26.80	9.03	244.48	233.96	186.90	4.97	
7300.00	7371.02	77.07	264.89	6923.75	27.30	9.17	243.21	240.15	191.65	4.95	
7400.00	7493.60	86.82	265.96	6940.89	28.18	10.25	242.61	244.39	193.56	4.81	
7500.00	7601.12	90.00	266.30	6942.00	29.22	11.08	242.68	246.23	193.17	4.64	
7600.00	7701.10	90.00	266.30	6942.00	30.39	11.57	242.85	247.69	192.40	4.48	
7700.00	7801.09	90.00	266.30	6942.00	31.77	12.09	243.03	249.16	191.31	4.31	
7800.00	7901.08	90.00	266.30	6942.00	33.33	12.62	243.20	250.63	189.92	4.13	
7900.00	8001.06	90.00	266.30	6942.00	35.04	13.18	243.37	252.10	188.22	3.95	
8000.00	8101.05	90.00	266.30	6942.00	36.88	13.75	243.53	253.58	186.29	3.77	
8100.00	8201.04	90.00	266.30	6942.00	38.84	14.34	243.70	255.06	184.08	3.59	
8200.00	8301.02	90.00	266.30	6942.00	40.89	14.94	243.86	256.54	181.71	3.43	
8300.00	8401.01	90.00	266.30	6942.00	43.03	15.56	244.02	258.02	179.21	3.27	
8400.00	8501.00	90.00	266.30	6942.00	45.24	16.18	244.18	259.50	176.59	3.13	
8500.00	8600.98	90.00	266.30	6942.00	47.51	16.81	244.34	260.99	173.87	3.00	
8600.00	8700.97	90.00	266.30	6942.00	49.83	17.45	244.50	262.48	171.06	2.87	
8700.00	8800.95	90.00	266.30	6942.00	52.20	18.10	244.65	263.97	168.11	2.75	
8800.00	8900.94	90.00	266.30	6942.00	54.61	18.76	244.80	265.46	165.09	2.64	
8900.00	9000.93	90.00	266.30	6942.00	57.06	19.41	244.95	266.95	161.99	2.54	
9000.00	9100.91	90.00	266.30	6942.00	59.54	20.08	245.10	268.45	158.79	2.45	SF(Lo)
9100.00	9200.90	90.00	266.30	6942.00	62.04	20.75	245.25	269.94	155.53	2.36	SF(Lo)
9200.00	9300.89	90.00	266.30	6942.00	64.57	21.42	245.40	271.44	152.24	2.28	SF(Lo)
9300.00	9400.87	90.00	266.30	6942.00	67.12	22.10	245.54	272.94	148.90	2.20	SF(Lo)
9400.00	9500.86	90.00	266.30	6942.00	69.69	22.78	245.68	274.44	145.53	2.13	SF(Lo)
9500.00	9600.85	90.00	266.30	6942.00	72.27	23.46	245.82	275.95	142.13	2.06	SF(Lo)
9600.00	9700.83	90.00	266.30	6942.00	74.87	24.15	245.96	277.45	138.69	2.00	SF(Lo)
9700.00	9800.82	90.00	266.30	6942.00	77.48	24.84	246.10	278.96	135.23	1.94	SF(Lo)
9800.00	9900.81	90.00	266.30	6942.00	80.11	25.53	246.24	280.47	131.75	1.89	SF(Lo)
9900.00	10000.79	90.00	266.30	6942.00	82.75	26.23	246.37	281.98	128.24	1.83	SF(Lo)
10000.00	10100.78	90.00	266.30	6942.00	85.39	26.92	246.51	283.49	124.71	1.79	SF(Lo)
10100.00	10200.76	90.00	266.30	6942.00	88.05	27.62	246.64	285.00	121.17	1.74	SF(Lo)
10200.00	10300.75	90.00	266.30	6942.00	90.72	28.32	246.77	286.52	117.60	1.70	SF(Lo)
10300.00	10400.74	90.00	266.30	6942.00	93.39	29.02	246.90	288.03	114.02	1.66	SF(Lo)
10400.00	10500.72	90.00	266.30	6942.00	96.07	29.72	247.03	289.55	110.42	1.62	SF(Lo)

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
10500.00	10600.71	90.00	266.30	6942.00	98.75	30.43	247.15	291.07	106.80	1.58	SF(Lo)
10600.00	10700.70	90.00	266.30	6942.00	101.44	31.13	247.28	292.59	103.18	1.54	SF(Lo)
10700.00	10800.68	90.00	266.30	6942.00	104.14	31.84	247.40	294.11	99.53	1.51	SF(Lo)
10800.00	10900.67	90.00	266.30	6942.00	106.84	32.55	247.53	295.64	95.88	1.48	SF(Med)
10900.00	11000.66	90.00	266.30	6942.00	109.55	33.26	247.65	297.16	92.21	1.45	SF(Med)
11000.00	11100.64	90.00	266.30	6942.00	112.26	33.97	247.77	298.69	88.53	1.42	SF(Med)
11100.00	11200.63	90.00	266.30	6942.00	114.98	34.68	247.89	300.22	84.85	1.39	SF(Med)
11200.00	11300.61	90.00	266.30	6942.00	117.70	35.39	248.00	301.74	81.15	1.37	SF(Med)
11300.00	11400.60	90.00	266.30	6942.00	120.42	36.11	248.12	303.27	77.44	1.34	SF(Med)
11400.00	11500.59	90.00	266.30	6942.00	123.14	36.82	248.24	304.81	73.72	1.32	SF(Med)
11500.00	11600.57	90.00	266.30	6942.00	125.87	37.53	248.35	306.34	70.00	1.30	SF(Med)
11600.00	11700.56	90.00	266.30	6942.00	128.60	38.25	248.46	307.87	66.26	1.27	SF(Med)
11700.00	11800.55	90.00	266.30	6942.00	131.34	38.96	248.58	309.41	62.52	1.25	SF(Med)
11800.00	11900.53	90.00	266.30	6942.00	134.08	39.68	248.69	310.94	58.77	1.23	SF(Med)
11900.00	12000.52	90.00	266.30	6942.00	136.82	40.40	248.80	312.48	55.01	1.21	SF(Med)
12000.00	12100.51	90.00	266.30	6942.00	139.56	41.12	248.91	314.02	51.25	1.20	SF(Med)
12100.00	12200.49	90.00	266.30	6942.00	142.30	41.83	249.01	315.56	47.48	1.18	SF(Med)
12200.00	12300.48	90.00	266.30	6942.00	145.05	42.55	249.12	317.10	43.71	1.16	SF(Med)
12300.00	12400.47	90.00	266.30	6942.00	147.79	43.27	249.23	318.64	39.92	1.14	SF(Med)
12400.00	12500.45	90.00	266.30	6942.00	150.54	43.99	249.33	320.18	36.14	1.13	SF(Med)
12500.00	12600.44	90.00	266.30	6942.00	153.29	44.71	249.43	321.72	32.34	1.11	SF(Med)
12600.00	12700.42	90.00	266.30	6942.00	156.05	45.43	249.54	323.27	28.54	1.10	SF(Med)
12700.00	12800.41	90.00	266.30	6942.00	158.80	46.15	249.64	324.81	24.74	1.08	SF(Med)
12800.00	12900.40	90.00	266.30	6942.00	161.56	46.87	249.74	326.36	20.93	1.07	SF(Med)
12900.00	13000.38	90.00	266.30	6942.00	164.31	47.60	249.84	327.91	17.12	1.06	SF(Med)
13000.00	13100.37	90.00	266.30	6942.00	167.07	48.32	249.94	329.46	13.30	1.04	SF(Med)
13100.00	13200.36	90.00	266.30	6942.00	169.83	49.04	250.04	331.01	9.48	1.03	SF(Med)
13200.00	13300.34	90.00	266.30	6942.00	172.59	49.76	250.13	332.56	5.66	1.02	SF(Med)
13300.00	13400.33	90.00	266.30	6942.00	175.35	50.49	250.23	334.11	1.83	1.01	SF(Med)
13400.00	13500.32	90.00	266.30	6942.00	178.11	51.21	250.32	335.66	-2.01	0.99	SF(Hi)
13500.00	13600.30	90.00	266.30	6942.00	180.88	51.93	250.42	337.22	-5.85	0.98	SF(Hi)
13600.00	13700.29	90.00	266.30	6942.00	183.64	52.66	250.51	338.77	-9.69	0.97	SF(Hi)
13700.00	13800.27	90.00	266.30	6942.00	186.41	53.38	250.61	340.33	-13.53	0.96	SF(Hi)
13800.00	13900.26	90.00	266.30	6942.00	189.17	54.11	250.70	341.88	-17.38	0.95	SF(Hi)
13900.00	14000.25	90.00	266.30	6942.00	191.94	54.83	250.79	343.44	-21.23	0.94	SF(Hi)
14000.00	14100.23	90.00	266.30	6942.00	194.71	55.55	250.88	345.00	-25.08	0.93	SF(Hi)
14100.00	14200.22	90.00	266.30	6942.00	197.48	56.28	250.97	346.55	-28.94	0.92	SF(Hi)
14200.00	14300.21	90.00	266.30	6942.00	200.25	57.00	251.06	348.11	-32.80	0.91	SF(Hi)
14300.00	14400.19	90.00	266.30	6942.00	203.02	57.73	251.14	349.67	-36.66	0.91	SF(Hi)
14400.00	14500.18	90.00	266.30	6942.00	205.79	58.46	251.23	351.24	-40.52	0.90	SF(Hi)
14500.00	14600.17	90.00	266.30	6942.00	208.56	59.18	251.32	352.80	-44.39	0.89	SF(Hi)
14600.00	14700.15	90.00	266.30	6942.00	211.33	59.91	251.40	354.36	-48.26	0.88	SF(Hi)
14700.00	14800.14	90.00	266.30	6942.00	214.11	60.63	251.49	355.92	-52.13	0.87	SF(Hi)
14800.00	14900.13	90.00	266.30	6942.00	216.88	61.36	251.57	357.49	-56.01	0.86	SF(Hi)
14900.00	15000.11	90.00	266.30	6942.00	219.65	62.09	251.65	359.05	-59.88	0.86	SF(Hi)
15000.00	15100.10	90.00	266.30	6942.00	222.43	62.81	251.74	360.62	-63.76	0.85	SF(Hi)
15100.00	15200.08	90.00	266.30	6942.00	225.20	63.54	251.82	362.19	-67.64	0.84	SF(Hi)
15200.00	15300.07	90.00	266.30	6942.00	227.98	64.27	251.90	363.75	-71.53	0.84	SF(Hi)
15300.00	15400.06	90.00	266.30	6942.00	230.76	64.99	251.98	365.32	-75.41	0.83	SF(Hi)
15322.07	15422.13	90.00	266.30	6942.00	231.37	65.15	252.00	365.67	-76.27	0.83	SF(Hi)
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	40.07	39.34	54.65	CC (Lo)
100.00	100.00	0.00	0.00	100.00	0.11	0.11	179.95	40.07	39.12	42.01	CC (Lo)
200.00	200.00	0.00	0.00	200.00	0.34	0.34	179.95	40.07	38.67	28.55	CC (Lo)
300.00	300.00	0.00	0.00	300.00	0.56	0.56	179.95	40.07	38.22	21.63	CC (Lo)

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
400.00	400.00	0.00	0.00	400.00	0.79	0.79	179.95	40.07	37.77	17.40	CC (Lo)
500.00	500.00	0.00	0.00	500.00	1.01	1.01	179.95	40.07	37.32	14.56	CC (Lo)
600.00	600.00	0.00	0.00	600.00	1.24	1.24	179.95	40.07	36.87	12.52	CC (Lo)
700.00	700.00	0.00	0.00	700.00	1.46	1.46	179.95	40.07	36.42	10.98	CC (Lo)
800.00	800.00	0.00	0.00	800.00	1.69	1.69	179.95	40.07	35.97	9.77	CC (Lo)
900.00	900.00	0.00	0.00	900.00	1.91	1.91	179.95	40.07	35.52	8.81	CC (Lo)
1000.00	1000.00	0.00	0.00	1000.00	2.14	2.14	179.95	40.07	35.07	8.01	CC (Lo)
1100.00	1100.00	0.00	0.00	1100.00	2.36	2.36	179.95	40.07	34.62	7.35	CC (Lo)
1200.00	1199.70	0.99	115.27	1199.70	2.57	2.57	179.39	40.26	34.38	6.85	CC (Lo)
1300.00	1298.97	2.98	115.27	1298.91	2.76	2.76	175.15	41.89	35.62	6.68	CC (Lo)
1400.00	1397.89	4.96	115.27	1397.58	2.96	2.95	167.71	45.76	39.05	6.82	CC (Lo)
1500.00	1496.27	6.93	115.27	1495.43	3.18	3.13	58.29	52.50	45.39	7.39	CC (Lo)
1600.00	1594.25	8.89	115.27	1592.47	3.42	3.33	52.04	60.96	53.45	8.12	CC (Lo)
1700.00	1691.87	10.84	115.27	1688.64	3.69	3.52	47.89	70.45	62.54	8.91	
1800.00	1789.12	12.78	115.27	1783.83	4.00	3.72	45.22	80.67	72.35	9.70	
1900.00	1885.99	14.72	115.27	1877.92	4.36	3.92	43.58	91.43	82.67	10.44	
2000.00	1983.55	15.98	115.27	1971.90	4.78	4.14	42.73	102.45	93.22	11.10	
2100.00	2083.13	15.98	115.27	2067.63	5.25	4.38	43.06	111.57	101.76	11.38	
2200.00	2182.86	15.98	115.27	2163.50	5.74	4.63	44.52	118.18	107.73	11.31	
2300.00	2282.61	15.98	115.27	2259.41	6.25	4.89	47.01	122.48	111.28	10.94	
2400.00	2382.35	15.98	115.27	2355.29	6.77	5.14	49.92	126.00	114.01	10.51	
2500.00	2482.09	15.98	115.27	2451.18	7.30	5.41	52.67	129.83	116.93	10.07	
2600.00	2581.83	15.98	115.27	2547.06	7.85	5.67	55.25	133.94	120.07	9.66	
2700.00	2681.57	15.98	115.27	2642.95	8.40	5.94	57.68	138.31	123.45	9.31	
2800.00	2781.31	15.98	115.27	2738.83	8.95	6.21	59.95	142.91	127.00	8.98	
2900.00	2881.04	15.98	115.27	2834.72	9.51	6.49	62.08	147.73	130.68	8.66	
3000.00	2980.78	15.98	115.27	2930.60	10.07	6.76	64.07	152.73	134.53	8.39	
3100.00	3080.52	15.98	115.27	3026.49	10.64	7.04	65.94	157.91	138.56	8.16	
3200.00	3180.26	15.98	115.27	3122.37	11.21	7.32	67.68	163.24	142.75	7.97	
3300.00	3280.00	15.98	115.27	3218.26	11.78	7.60	69.31	168.71	147.05	7.79	
3400.00	3379.73	15.98	115.27	3314.14	12.36	7.88	70.84	174.32	151.41	7.61	
3500.00	3479.47	15.98	115.27	3410.03	12.93	8.17	72.28	180.03	155.89	7.46	
3600.00	3579.21	15.98	115.27	3505.91	13.51	8.45	73.62	185.86	160.48	7.32	
3700.00	3678.95	15.98	115.27	3601.80	14.09	8.73	74.88	191.78	165.17	7.21	
3800.00	3778.69	15.98	115.27	3697.68	14.67	9.02	76.07	197.79	169.95	7.10	
3900.00	3878.42	15.98	115.27	3793.57	15.25	9.31	77.19	203.88	174.81	7.01	
4000.00	3978.16	15.98	115.27	3889.45	15.83	9.59	78.24	210.04	179.75	6.94	
4100.00	4077.90	15.98	115.27	3985.34	16.41	9.88	79.23	216.26	184.76	6.87	
4200.00	4177.64	15.98	115.27	4081.22	17.00	10.17	80.16	222.55	189.83	6.80	
4300.00	4277.38	15.98	115.27	4177.11	17.58	10.46	81.05	228.89	194.95	6.74	
4400.00	4377.11	15.98	115.27	4272.99	18.17	10.75	81.88	235.29	200.10	6.69	
4500.00	4476.85	15.98	115.27	4368.88	18.75	11.03	82.67	241.73	205.30	6.64	
4600.00	4576.59	15.98	115.27	4464.76	19.34	11.32	83.42	248.21	210.53	6.59	
4700.00	4676.33	15.98	115.27	4560.65	19.93	11.61	84.14	254.74	215.80	6.54	
4800.00	4776.07	15.98	115.27	4656.53	20.51	11.91	84.81	261.30	221.11	6.50	
4900.00	4875.80	15.98	115.27	4752.42	21.10	12.20	85.46	267.90	226.46	6.46	
5000.00	4975.54	15.98	115.27	4848.30	21.69	12.49	86.07	274.53	231.84	6.43	
5100.00	5075.28	15.98	115.27	4944.19	22.28	12.78	86.65	281.19	237.26	6.40	
5200.00	5175.02	15.98	115.27	5040.07	22.86	13.07	87.21	287.88	242.71	6.37	
5300.00	5274.76	15.98	115.27	5135.96	23.45	13.36	87.74	294.59	248.19	6.35	
5400.00	5374.49	15.98	115.27	5231.84	24.04	13.65	88.25	301.33	253.69	6.33	
5500.00	5474.23	15.98	115.27	5327.72	24.63	13.95	88.73	308.09	259.22	6.30	
5600.00	5573.97	15.98	115.27	5423.61	25.22	14.24	89.20	314.87	264.77	6.28	
5700.00	5673.71	15.98	115.27	5519.49	25.81	14.53	89.64	321.67	270.34	6.27	
5800.00	5773.45	15.98	115.27	5615.38	26.40	14.83	90.07	328.49	275.93	6.25	
5900.00	5873.19	15.98	115.27	5711.26	26.99	15.12	90.48	335.32	281.55	6.24	
6000.00	5972.92	15.98	115.27	5807.15	27.58	15.41	90.87	342.18	287.18	6.22	
6100.00	6072.66	15.98	115.27	5903.04	28.17	15.71	90.52	349.02	292.81	6.21	

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
6200.00	6172.30	15.98	115.27	5998.82	28.76	16.00	76.13	353.64	296.57	6.20	
6300.00	6270.34	15.98	115.27	6093.07	29.34	16.29	4.98	355.24	297.78	6.18	
6400.00	6364.87	15.98	115.27	6183.95	29.90	16.57	303.02	355.93	298.87	6.24	
6500.00	6453.67	12.30	125.60	6269.79	30.28	16.80	285.49	359.23	303.39	6.43	
6600.00	6545.12	8.11	160.69	6359.85	30.40	16.87	275.38	367.63	313.87	6.84	
6700.00	6642.47	9.57	212.33	6456.18	30.27	16.70	267.62	381.11	329.64	7.40	
6800.00	6747.14	15.93	238.00	6558.30	29.88	16.25	261.08	399.03	349.99	8.14	
6900.00	6860.86	24.25	248.97	6665.05	29.24	15.43	255.41	420.23	373.56	9.00	
7000.00	6985.57	33.82	254.88	6773.98	28.41	14.19	250.46	443.21	398.23	9.85	
7100.00	7123.20	44.57	258.69	6880.51	27.55	12.52	246.24	466.09	422.17	10.61	
7200.00	7275.13	56.53	261.48	6976.89	26.94	10.64	242.80	486.80	443.08	11.14	
7300.00	7441.20	69.66	263.77	7051.89	26.96	9.37	240.28	503.14	458.11	11.17	
7400.00	7618.66	83.71	265.82	7092.65	27.89	10.02	238.86	513.13	465.08	10.68	
7500.00	7754.50	90.00	266.68	7097.00	29.14	11.26	238.66	515.35	464.49	10.13	
7600.00	7854.50	90.00	266.68	7097.00	30.27	11.74	238.72	516.19	463.37	9.77	
7700.00	7954.49	90.00	266.68	7097.00	31.60	12.24	238.78	517.03	461.73	9.35	
7800.00	8054.49	90.00	266.68	7097.00	33.12	12.77	238.83	517.87	459.77	8.91	
7900.00	8154.49	90.00	266.68	7097.00	34.80	13.33	238.89	518.72	457.60	8.49	
8000.00	8254.48	90.00	266.68	7097.00	36.61	13.90	238.95	519.56	455.23	8.08	
8100.00	8354.48	90.00	266.68	7097.00	38.54	14.48	239.00	520.40	452.64	7.68	
8200.00	8454.47	90.00	266.68	7097.00	40.57	15.08	239.06	521.24	449.82	7.30	
8300.00	8554.47	90.00	266.68	7097.00	42.69	15.69	239.11	522.09	446.88	6.94	
8400.00	8654.46	90.00	266.68	7097.00	44.89	16.31	239.17	522.93	443.82	6.61	
8500.00	8754.46	90.00	266.68	7097.00	47.14	16.95	239.22	523.78	440.67	6.30	
8600.00	8854.45	90.00	266.68	7097.00	49.46	17.58	239.28	524.62	437.43	6.02	
8700.00	8954.45	90.00	266.68	7097.00	51.82	18.23	239.33	525.47	434.12	5.75	
8800.00	9054.44	90.00	266.68	7097.00	54.22	18.88	239.39	526.31	430.75	5.51	
8900.00	9154.44	90.00	266.68	7097.00	56.66	19.54	239.44	527.16	427.27	5.28	
9000.00	9254.43	90.00	266.68	7097.00	59.13	20.20	239.50	528.01	423.74	5.06	
9100.00	9354.43	90.00	266.68	7097.00	61.63	20.87	239.55	528.85	420.16	4.87	
9200.00	9454.42	90.00	266.68	7097.00	64.15	21.54	239.60	529.70	416.54	4.68	
9300.00	9554.42	90.00	266.68	7097.00	66.69	22.22	239.66	530.55	412.90	4.51	
9400.00	9654.41	90.00	266.68	7097.00	69.26	22.90	239.71	531.40	409.22	4.35	
9500.00	9754.41	90.00	266.68	7097.00	71.84	23.58	239.77	532.25	405.50	4.20	
9600.00	9854.40	90.00	266.68	7097.00	74.44	24.27	239.82	533.10	401.69	4.06	
9700.00	9954.40	90.00	266.68	7097.00	77.05	24.96	239.87	533.95	397.85	3.92	
9800.00	10054.39	90.00	266.68	7097.00	79.67	25.65	239.92	534.80	393.99	3.80	
9900.00	10154.39	90.00	266.68	7097.00	82.31	26.34	239.98	535.65	390.12	3.68	
10000.00	10254.38	90.00	266.68	7097.00	84.96	27.03	240.03	536.50	386.23	3.57	
10100.00	10354.38	90.00	266.68	7097.00	87.61	27.73	240.08	537.35	382.32	3.47	
10200.00	10454.37	90.00	266.68	7097.00	90.28	28.43	240.13	538.21	378.39	3.37	
10300.00	10554.37	90.00	266.68	7097.00	92.95	29.13	240.19	539.06	374.45	3.27	
10400.00	10654.36	90.00	266.68	7097.00	95.63	29.83	240.24	539.91	370.50	3.19	
10500.00	10754.36	90.00	266.68	7097.00	98.31	30.54	240.29	540.77	366.53	3.10	
10600.00	10854.35	90.00	266.68	7097.00	101.00	31.24	240.34	541.62	362.55	3.02	
10700.00	10954.35	90.00	266.68	7097.00	103.70	31.95	240.39	542.47	358.56	2.95	
10800.00	11054.34	90.00	266.68	7097.00	106.41	32.65	240.44	543.33	354.56	2.88	
10900.00	11154.34	90.00	266.68	7097.00	109.11	33.36	240.50	544.19	350.55	2.81	
11000.00	11254.34	90.00	266.68	7097.00	111.82	34.07	240.55	545.04	346.53	2.75	
11100.00	11354.33	90.00	266.68	7097.00	114.54	34.78	240.60	545.90	342.49	2.68	
11200.00	11454.33	90.00	266.68	7097.00	117.26	35.49	240.65	546.75	338.45	2.62	
11300.00	11554.32	90.00	266.68	7097.00	119.98	36.21	240.70	547.61	334.40	2.57	
11400.00	11654.32	90.00	266.68	7097.00	122.71	36.92	240.75	548.47	330.34	2.51	
11500.00	11754.31	90.00	266.68	7097.00	125.44	37.63	240.80	549.33	326.28	2.46	SF(Lo)
11600.00	11854.31	90.00	266.68	7097.00	128.17	38.35	240.85	550.19	322.20	2.41	SF(Lo)
11700.00	11954.30	90.00	266.68	7097.00	130.91	39.06	240.90	551.05	318.12	2.37	SF(Lo)
11800.00	12054.30	90.00	266.68	7097.00	133.65	39.78	240.95	551.90	314.03	2.32	SF(Lo)
11900.00	12154.29	90.00	266.68	7097.00	136.39	40.50	241.00	552.76	309.93	2.28	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
12000.00	12254.29	90.00	266.68	7097.00	139.13	41.21	241.05	553.62	305.82	2.23	SF(Lo)
12100.00	12354.28	90.00	266.68	7097.00	141.88	41.93	241.10	554.49	301.71	2.19	SF(Lo)
12200.00	12454.28	90.00	266.68	7097.00	144.62	42.65	241.14	555.35	297.60	2.15	SF(Lo)
12300.00	12554.27	90.00	266.68	7097.00	147.37	43.37	241.19	556.21	293.47	2.12	SF(Lo)
12400.00	12654.27	90.00	266.68	7097.00	150.12	44.09	241.24	557.07	289.34	2.08	SF(Lo)
12500.00	12754.26	90.00	266.68	7097.00	152.88	44.81	241.29	557.93	285.21	2.05	SF(Lo)
12600.00	12854.26	90.00	266.68	7097.00	155.63	45.53	241.34	558.79	281.07	2.01	SF(Lo)
12700.00	12954.25	90.00	266.68	7097.00	158.39	46.25	241.39	559.66	276.92	1.98	SF(Lo)
12800.00	13054.25	90.00	266.68	7097.00	161.14	46.97	241.44	560.52	272.77	1.95	SF(Lo)
12900.00	13154.24	90.00	266.68	7097.00	163.90	47.69	241.48	561.38	268.61	1.92	SF(Lo)
13000.00	13254.24	90.00	266.68	7097.00	166.66	48.41	241.53	562.25	264.45	1.89	SF(Lo)
13100.00	13354.23	90.00	266.68	7097.00	169.42	49.13	241.58	563.11	260.28	1.86	SF(Lo)
13200.00	13454.23	90.00	266.68	7097.00	172.18	49.85	241.63	563.98	256.10	1.83	SF(Lo)
13300.00	13554.22	90.00	266.68	7097.00	174.95	50.58	241.67	564.84	251.93	1.81	SF(Lo)
13400.00	13654.22	90.00	266.68	7097.00	177.71	51.30	241.72	565.71	247.74	1.78	SF(Lo)
13500.00	13754.21	90.00	266.68	7097.00	180.48	52.02	241.77	566.58	243.56	1.75	SF(Lo)
13600.00	13854.21	90.00	266.68	7097.00	183.24	52.75	241.82	567.44	239.37	1.73	SF(Lo)
13700.00	13954.20	90.00	266.68	7097.00	186.01	53.47	241.86	568.31	235.17	1.71	SF(Lo)
13800.00	14054.20	90.00	266.68	7097.00	188.78	54.19	241.91	569.18	230.97	1.68	SF(Lo)
13900.00	14154.20	90.00	266.68	7097.00	191.55	54.92	241.96	570.04	226.77	1.66	SF(Lo)
14000.00	14254.19	90.00	266.68	7097.00	194.32	55.64	242.00	570.91	222.56	1.64	SF(Lo)
14100.00	14354.19	90.00	266.68	7097.00	197.09	56.37	242.05	571.78	218.35	1.62	SF(Lo)
14200.00	14454.18	90.00	266.68	7097.00	199.86	57.09	242.09	572.65	214.13	1.60	SF(Lo)
14300.00	14554.18	90.00	266.68	7097.00	202.63	57.82	242.14	573.52	209.91	1.58	SF(Lo)
14400.00	14654.17	90.00	266.68	7097.00	205.41	58.54	242.19	574.39	205.68	1.56	SF(Lo)
14500.00	14754.17	90.00	266.68	7097.00	208.18	59.27	242.23	575.26	201.46	1.54	SF(Lo)
14600.00	14854.16	90.00	266.68	7097.00	210.95	59.99	242.28	576.13	197.22	1.52	SF(Lo)
14700.00	14954.16	90.00	266.68	7097.00	213.73	60.72	242.32	577.00	192.99	1.50	SF(Lo)
14800.00	15054.15	90.00	266.68	7097.00	216.50	61.45	242.37	577.87	188.75	1.49	SF(Med)
14900.00	15154.15	90.00	266.68	7097.00	219.28	62.17	242.41	578.74	184.51	1.47	SF(Med)
15000.00	15254.14	90.00	266.68	7097.00	222.06	62.90	242.46	579.61	180.26	1.45	SF(Med)
15100.00	15354.14	90.00	266.68	7097.00	224.83	63.63	242.50	580.48	176.01	1.44	SF(Med)
15200.00	15454.13	90.00	266.68	7097.00	227.61	64.35	242.55	581.36	171.76	1.42	SF(Med)
15300.00	15554.13	90.00	266.68	7097.00	230.39	65.08	242.59	582.23	167.50	1.40	SF(Med)
15322.07	15576.20	90.00	266.68	7097.00	231.00	65.24	242.60	582.42	166.56	1.40	SF(Med)
Secondary Well: Goetzel 33N-30B-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	0.00	0.00	0.00	180.08	60.11	59.38	81.97	CC (Lo)
100.00	100.00	0.00	0.00	100.00	0.11	0.11	180.08	60.11	59.16	63.01	CC (Lo)
200.00	200.00	0.00	0.00	200.00	0.34	0.34	180.08	60.11	58.71	42.83	CC (Lo)
300.00	300.00	0.00	0.00	300.00	0.56	0.56	180.08	60.11	58.26	32.44	CC (Lo)
400.00	400.00	0.00	0.00	400.00	0.79	0.79	180.08	60.11	57.81	26.11	CC (Lo)
500.00	500.00	0.00	0.00	500.00	1.01	1.01	180.08	60.11	57.36	21.84	CC (Lo)
600.00	600.00	0.00	0.00	600.00	1.24	1.24	180.08	60.11	56.91	18.77	CC (Lo)
700.00	700.00	0.00	0.00	700.00	1.46	1.46	180.08	60.11	56.46	16.46	CC (Lo)
800.00	800.00	0.00	0.00	800.00	1.69	1.69	180.08	60.11	56.01	14.66	CC (Lo)
900.00	900.00	0.00	0.00	900.00	1.91	1.91	180.08	60.11	55.56	13.21	CC (Lo)
1000.00	1000.00	0.00	0.00	1000.00	2.14	2.14	180.08	60.11	55.11	12.02	CC (Lo)
1100.00	1098.81	1.98	123.78	1098.79	2.34	2.34	178.75	61.09	55.67	11.28	CC (Lo)
1200.00	1197.39	3.95	123.78	1197.23	2.52	2.52	175.02	64.19	58.37	11.03	CC (Lo)
1300.00	1295.49	5.91	123.78	1294.97	2.73	2.70	169.61	69.90	63.66	11.20	
1400.00	1392.91	7.86	123.78	1391.68	2.95	2.89	163.47	78.75	72.08	11.81	
1500.00	1489.49	9.79	123.78	1487.11	3.21	3.08	56.65	90.88	83.80	12.84	
1600.00	1585.48	11.71	123.78	1581.41	3.50	3.28	52.45	104.80	97.32	14.00	
1700.00	1680.92	13.62	123.78	1674.52	3.83	3.48	49.74	119.84	111.95	15.19	
1800.00	1775.79	15.52	123.78	1766.35	4.22	3.68	48.06	135.71	127.41	16.34	

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
1900.00	1870.10	17.40	123.78	1856.79	4.67	3.89	47.13	152.28	143.53	17.40	
2000.00	1968.46	17.55	123.78	1950.56	5.18	4.14	46.92	168.21	158.93	18.11	
2100.00	2067.49	17.55	123.78	2044.99	5.73	4.40	47.56	181.82	171.93	18.39	
2200.00	2166.72	17.55	123.78	2139.60	6.29	4.66	48.88	193.17	182.62	18.32	
2300.00	2266.02	17.55	123.78	2234.28	6.87	4.93	50.83	202.43	191.12	17.90	
2400.00	2365.33	17.55	123.78	2328.96	7.46	5.21	53.07	211.01	198.84	17.34	
2500.00	2464.63	17.55	123.78	2423.64	8.05	5.48	55.13	219.89	206.83	16.84	
2600.00	2563.94	17.55	123.78	2518.32	8.66	5.76	57.03	229.02	215.01	16.34	
2700.00	2663.24	17.55	123.78	2613.00	9.27	6.05	58.78	238.39	223.38	15.88	
2800.00	2762.55	17.55	123.78	2707.68	9.88	6.33	60.39	247.97	231.90	15.43	
2900.00	2861.85	17.55	123.78	2802.37	10.50	6.62	61.89	257.72	240.58	15.04	
3000.00	2961.16	17.55	123.78	2897.05	11.12	6.91	63.28	267.64	249.42	14.69	
3100.00	3060.46	17.55	123.78	2991.73	11.74	7.20	64.57	277.70	258.36	14.36	
3200.00	3159.77	17.55	123.78	3086.41	12.37	7.49	65.76	287.89	267.40	14.05	
3300.00	3259.07	17.55	123.78	3181.09	13.00	7.78	66.88	298.20	276.56	13.78	
3400.00	3358.38	17.55	123.78	3275.77	13.63	8.08	67.92	308.61	285.81	13.53	
3500.00	3457.68	17.55	123.78	3370.45	14.26	8.37	68.89	319.12	295.14	13.31	
3600.00	3556.99	17.55	123.78	3465.13	14.89	8.67	69.80	329.71	304.54	13.09	
3700.00	3656.29	17.55	123.78	3559.82	15.52	8.97	70.66	340.39	314.01	12.90	
3800.00	3755.60	17.55	123.78	3654.50	16.15	9.27	71.46	351.13	323.55	12.73	
3900.00	3854.90	17.55	123.78	3749.18	16.79	9.57	72.21	361.93	333.15	12.58	
4000.00	3954.20	17.55	123.78	3843.86	17.42	9.86	72.92	372.79	342.81	12.43	
4100.00	4053.51	17.55	123.78	3938.54	18.06	10.16	73.59	383.71	352.50	12.29	
4200.00	4152.81	17.55	123.78	4033.22	18.69	10.46	74.23	394.68	362.23	12.16	
4300.00	4252.12	17.55	123.78	4127.90	19.33	10.77	74.83	405.69	372.01	12.05	
4400.00	4351.42	17.55	123.78	4222.59	19.97	11.07	75.39	416.74	381.83	11.94	
4500.00	4450.73	17.55	123.78	4317.27	20.61	11.37	75.93	427.83	391.68	11.84	
4600.00	4550.03	17.55	123.78	4411.95	21.24	11.67	76.44	438.96	401.58	11.74	
4700.00	4649.34	17.55	123.78	4506.63	21.88	11.97	76.93	450.12	411.50	11.66	
4800.00	4748.64	17.55	123.78	4601.31	22.52	12.27	77.39	461.31	421.46	11.58	
4900.00	4847.95	17.55	123.78	4695.99	23.16	12.58	77.83	472.52	431.44	11.50	
5000.00	4947.25	17.55	123.78	4790.67	23.80	12.88	78.25	483.77	441.45	11.43	
5100.00	5046.56	17.55	123.78	4885.36	24.44	13.18	78.65	495.04	451.49	11.37	
5200.00	5145.86	17.55	123.78	4980.04	25.08	13.49	79.03	506.33	461.55	11.31	
5300.00	5245.17	17.55	123.78	5074.72	25.72	13.79	79.40	517.64	471.63	11.25	
5400.00	5344.47	17.55	123.78	5169.40	26.36	14.10	79.75	528.97	481.73	11.20	
5500.00	5443.78	17.55	123.78	5264.08	27.00	14.40	80.09	540.32	491.85	11.15	
5600.00	5543.08	17.55	123.78	5358.76	27.64	14.70	80.41	551.69	501.98	11.10	
5700.00	5642.39	17.55	123.78	5453.44	28.28	15.01	80.72	563.08	512.14	11.05	
5800.00	5741.69	17.55	123.78	5548.12	28.92	15.31	81.01	574.48	522.31	11.01	
5900.00	5841.00	17.55	123.78	5642.81	29.56	15.62	81.30	585.90	532.49	10.97	
6000.00	5940.30	17.55	123.78	5737.49	30.20	15.92	81.57	597.33	542.69	10.93	
6100.00	6039.61	17.55	123.78	5832.17	30.85	16.23	81.16	608.76	552.91	10.90	
6200.00	6138.81	17.55	123.78	5926.75	31.49	16.53	67.69	619.28	562.62	10.93	
6300.00	6236.41	17.55	123.78	6019.81	32.12	16.83	358.46	628.56	571.59	11.03	
6400.00	6328.14	13.64	137.77	6107.94	32.53	17.08	299.67	637.77	581.13	11.26	
6500.00	6421.47	10.59	170.95	6199.29	32.57	17.16	286.25	647.91	592.04	11.60	
6600.00	6518.70	12.35	209.88	6294.71	32.28	17.02	280.16	658.89	604.05	12.02	
6700.00	6620.47	17.97	232.94	6392.99	31.68	16.62	276.21	670.49	616.66	12.46	
6800.00	6727.44	25.36	244.79	6492.38	30.79	15.93	273.19	682.39	629.58	12.92	
6900.00	6840.25	33.73	251.71	6590.45	29.73	14.88	270.69	694.17	642.20	13.36	
7000.00	6959.40	42.84	256.30	6683.90	28.63	13.46	268.54	705.34	653.87	13.70	
7100.00	7085.17	52.58	259.68	6768.44	27.73	11.76	266.70	715.29	663.75	13.88	
7200.00	7217.42	62.91	262.40	6838.93	27.28	10.14	265.15	723.42	671.03	13.81	
7300.00	7355.42	73.74	264.74	6889.83	27.49	9.36	263.95	729.12	675.06	13.49	
7400.00	7497.76	84.93	266.90	6916.14	28.38	10.21	263.12	731.88	675.57	13.00	
7500.00	7617.58	90.00	267.85	6919.00	29.53	11.40	262.93	731.40	672.54	12.43	
7600.00	7717.57	90.00	267.85	6919.00	30.66	11.90	262.92	730.35	669.17	11.94	

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
7700.00	7817.57	90.00	267.85	6919.00	31.99	12.43	262.91	729.31	665.47	11.43	
7800.00	7917.56	90.00	267.85	6919.00	33.51	12.98	262.90	728.26	661.27	10.87	
7900.00	8017.56	90.00	267.85	6919.00	35.18	13.56	262.89	727.22	656.88	10.34	
8000.00	8117.55	90.00	267.85	6919.00	36.99	14.15	262.88	726.17	652.25	9.82	
8100.00	8217.54	90.00	267.85	6919.00	38.91	14.75	262.87	725.13	647.24	9.31	
8200.00	8317.54	90.00	267.85	6919.00	40.94	15.37	262.86	724.08	642.09	8.83	
8300.00	8417.53	90.00	267.85	6919.00	43.05	16.00	262.85	723.04	636.79	8.38	
8400.00	8517.53	90.00	267.85	6919.00	45.24	16.64	262.84	721.99	631.37	7.97	
8500.00	8617.52	90.00	267.85	6919.00	47.49	17.28	262.83	720.95	625.82	7.58	
8600.00	8717.52	90.00	267.85	6919.00	49.80	17.93	262.82	719.90	620.17	7.22	
8700.00	8817.51	90.00	267.85	6919.00	52.16	18.59	262.81	718.86	614.42	6.88	
8800.00	8917.51	90.00	267.85	6919.00	54.55	19.26	262.80	717.82	608.59	6.57	
8900.00	9017.50	90.00	267.85	6919.00	56.99	19.93	262.79	716.77	602.69	6.28	
9000.00	9117.49	90.00	267.85	6919.00	59.46	20.60	262.78	715.73	596.73	6.01	
9100.00	9217.49	90.00	267.85	6919.00	61.96	21.28	262.77	714.68	590.71	5.77	
9200.00	9317.48	90.00	267.85	6919.00	64.48	21.96	262.75	713.64	584.65	5.53	
9300.00	9417.48	90.00	267.85	6919.00	67.02	22.64	262.74	712.59	578.54	5.32	
9400.00	9517.47	90.00	267.85	6919.00	69.59	23.33	262.73	711.55	572.40	5.11	
9500.00	9617.47	90.00	267.85	6919.00	72.17	24.01	262.72	710.50	566.22	4.92	
9600.00	9717.46	90.00	267.85	6919.00	74.77	24.71	262.71	709.46	560.01	4.75	
9700.00	9817.46	90.00	267.85	6919.00	77.38	25.40	262.70	708.42	553.77	4.58	
9800.00	9917.45	90.00	267.85	6919.00	80.01	26.10	262.69	707.37	547.51	4.42	
9900.00	10017.44	90.00	267.85	6919.00	82.65	26.79	262.68	706.33	541.22	4.28	
10000.00	10117.44	90.00	267.85	6919.00	85.29	27.49	262.67	705.28	534.92	4.14	
10100.00	10217.43	90.00	267.85	6919.00	87.95	28.19	262.66	704.24	528.60	4.01	
10200.00	10317.43	90.00	267.85	6919.00	90.62	28.90	262.65	703.20	522.26	3.89	
10300.00	10417.42	90.00	267.85	6919.00	93.29	29.60	262.64	702.15	515.91	3.77	
10400.00	10517.42	90.00	267.85	6919.00	95.97	30.31	262.62	701.11	509.54	3.66	
10500.00	10617.41	90.00	267.85	6919.00	98.66	31.01	262.61	700.06	503.16	3.56	
10600.00	10717.41	90.00	267.85	6919.00	101.36	31.72	262.60	699.02	496.77	3.46	
10700.00	10817.40	90.00	267.85	6919.00	104.06	32.43	262.59	697.98	490.37	3.36	
10800.00	10917.39	90.00	267.85	6919.00	106.76	33.14	262.58	696.93	483.96	3.27	
10900.00	11017.39	90.00	267.85	6919.00	109.47	33.85	262.57	695.89	477.54	3.19	
11000.00	11117.38	90.00	267.85	6919.00	112.19	34.56	262.56	694.84	471.11	3.11	
11100.00	11217.38	90.00	267.85	6919.00	114.91	35.28	262.55	693.80	464.67	3.03	
11200.00	11317.37	90.00	267.85	6919.00	117.63	35.99	262.53	692.76	458.23	2.95	
11300.00	11417.37	90.00	267.85	6919.00	120.36	36.71	262.52	691.71	451.78	2.88	
11400.00	11517.36	90.00	267.85	6919.00	123.09	37.42	262.51	690.67	445.32	2.82	
11500.00	11617.36	90.00	267.85	6919.00	125.82	38.14	262.50	689.62	438.86	2.75	
11600.00	11717.35	90.00	267.85	6919.00	128.56	38.85	262.49	688.58	432.39	2.69	
11700.00	11817.35	90.00	267.85	6919.00	131.30	39.57	262.48	687.54	425.92	2.63	
11800.00	11917.34	90.00	267.85	6919.00	134.04	40.29	262.47	686.49	419.44	2.57	
11900.00	12017.33	90.00	267.85	6919.00	136.79	41.00	262.45	685.45	412.96	2.52	
12000.00	12117.33	90.00	267.85	6919.00	139.53	41.72	262.44	684.41	406.48	2.46	SF(Lo)
12100.00	12217.32	90.00	267.85	6919.00	142.28	42.44	262.43	683.36	399.99	2.41	SF(Lo)
12200.00	12317.32	90.00	267.85	6919.00	145.04	43.16	262.42	682.32	393.49	2.36	SF(Lo)
12300.00	12417.31	90.00	267.85	6919.00	147.79	43.88	262.41	681.28	387.00	2.32	SF(Lo)
12400.00	12517.31	90.00	267.85	6919.00	150.54	44.60	262.40	680.23	380.50	2.27	SF(Lo)
12500.00	12617.30	90.00	267.85	6919.00	153.30	45.32	262.38	679.19	374.00	2.23	SF(Lo)
12600.00	12717.30	90.00	267.85	6919.00	156.06	46.04	262.37	678.14	367.49	2.18	SF(Lo)
12700.00	12817.29	90.00	267.85	6919.00	158.82	46.77	262.36	677.10	360.98	2.14	SF(Lo)
12800.00	12917.28	90.00	267.85	6919.00	161.58	47.49	262.35	676.06	354.47	2.10	SF(Lo)
12900.00	13017.28	90.00	267.85	6919.00	164.34	48.21	262.34	675.01	347.96	2.06	SF(Lo)
13000.00	13117.27	90.00	267.85	6919.00	167.11	48.93	262.33	673.97	341.45	2.03	SF(Lo)
13100.00	13217.27	90.00	267.85	6919.00	169.87	49.66	262.31	672.93	334.93	1.99	SF(Lo)
13200.00	13317.26	90.00	267.85	6919.00	172.64	50.38	262.30	671.88	328.41	1.96	SF(Lo)
13300.00	13417.26	90.00	267.85	6919.00	175.41	51.10	262.29	670.84	321.89	1.92	SF(Lo)
13400.00	13517.25	90.00	267.85	6919.00	178.18	51.83	262.28	669.80	315.37	1.89	SF(Lo)

5D Anti-Collision Report

Secondary Well: Goetzel 33N-30B-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
13500.00	13617.25	90.00	267.85	6919.00	180.95	52.55	262.27	668.75	308.84	1.86	SF(Lo)
13600.00	13717.24	90.00	267.85	6919.00	183.72	53.27	262.25	667.71	302.32	1.83	SF(Lo)
13700.00	13817.23	90.00	267.85	6919.00	186.49	54.00	262.24	666.67	295.79	1.80	SF(Lo)
13800.00	13917.23	90.00	267.85	6919.00	189.26	54.72	262.23	665.63	289.26	1.77	SF(Lo)
13900.00	14017.22	90.00	267.85	6919.00	192.04	55.45	262.22	664.58	282.73	1.74	SF(Lo)
14000.00	14117.22	90.00	267.85	6919.00	194.81	56.17	262.20	663.54	276.20	1.71	SF(Lo)
14100.00	14217.21	90.00	267.85	6919.00	197.59	56.90	262.19	662.50	269.67	1.69	SF(Lo)
14200.00	14317.21	90.00	267.85	6919.00	200.37	57.63	262.18	661.45	263.14	1.66	SF(Lo)
14300.00	14417.20	90.00	267.85	6919.00	203.14	58.35	262.17	660.41	256.61	1.64	SF(Lo)
14400.00	14517.20	90.00	267.85	6919.00	205.92	59.08	262.15	659.37	250.07	1.61	SF(Lo)
14500.00	14617.19	90.00	267.85	6919.00	208.70	59.80	262.14	658.32	243.54	1.59	SF(Lo)
14600.00	14717.18	90.00	267.85	6919.00	211.48	60.53	262.13	657.28	237.00	1.56	SF(Lo)
14700.00	14817.18	90.00	267.85	6919.00	214.26	61.26	262.12	656.24	230.46	1.54	SF(Lo)
14800.00	14917.17	90.00	267.85	6919.00	217.04	61.98	262.10	655.20	223.92	1.52	SF(Lo)
14900.00	15017.17	90.00	267.85	6919.00	219.82	62.71	262.09	654.15	217.39	1.50	SF(Med)
15000.00	15117.16	90.00	267.85	6919.00	222.60	63.44	262.08	653.11	210.85	1.48	SF(Med)
15100.00	15217.16	90.00	267.85	6919.00	225.38	64.16	262.07	652.07	204.31	1.46	SF(Med)
15200.00	15317.15	90.00	267.85	6919.00	228.17	64.89	262.05	651.03	197.77	1.44	SF(Med)
15300.00	15417.15	90.00	267.85	6919.00	230.95	65.62	262.04	649.98	191.23	1.42	SF(Med)
15322.07	15439.22	90.00	267.85	6919.00	231.56	65.78	262.04	649.75	189.78	1.41	SF(Med)
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	80.15	79.41	109.30	
100.00	100.00	0.00	0.00	100.00	0.11	0.11	179.95	80.15	79.19	84.02	
200.00	200.00	0.00	0.00	200.00	0.34	0.34	179.95	80.15	78.74	57.11	
300.00	300.00	0.00	0.00	300.00	0.56	0.56	179.95	80.15	78.30	43.25	
400.00	400.00	0.00	0.00	400.00	0.79	0.79	179.95	80.15	77.85	34.81	
500.00	500.00	0.00	0.00	500.00	1.01	1.01	179.95	80.15	77.40	29.12	
600.00	600.00	0.00	0.00	600.00	1.24	1.24	179.95	80.15	76.95	25.03	
700.00	700.00	0.00	0.00	700.00	1.46	1.46	179.95	80.15	76.50	21.95	
800.00	800.00	0.00	0.00	800.00	1.69	1.69	179.95	80.15	76.05	19.54	
900.00	899.17	0.98	127.01	899.16	1.90	1.90	179.71	80.41	75.87	17.74	
1000.00	997.38	2.95	127.01	997.32	2.08	2.08	177.85	82.53	77.59	16.70	
1100.00	1095.25	4.91	127.01	1094.95	2.28	2.26	174.42	87.02	81.68	16.29	
1200.00	1192.55	6.85	127.01	1191.74	2.49	2.45	169.94	94.27	88.49	16.32	
1300.00	1289.07	8.78	127.01	1287.35	2.74	2.65	165.00	104.67	98.47	16.88	
1400.00	1384.59	10.69	127.01	1381.49	3.01	2.85	160.13	118.51	111.86	17.82	
1500.00	1479.00	12.58	127.01	1473.96	3.33	3.05	54.74	135.68	128.60	19.17	
1600.00	1572.66	14.45	127.01	1565.02	3.70	3.25	51.46	154.52	147.05	20.67	
1700.00	1665.64	16.31	127.01	1654.66	4.12	3.46	49.27	174.41	166.52	22.11	
1800.00	1760.35	17.39	127.01	1745.19	4.61	3.69	47.87	194.85	186.51	23.37	
1900.00	1858.58	17.39	127.01	1838.94	5.14	3.95	47.32	213.52	204.68	24.15	
2000.00	1957.22	17.39	127.01	1933.07	5.70	4.21	47.50	229.86	220.46	24.45	
2100.00	2056.14	17.39	127.01	2027.47	6.28	4.48	48.27	243.92	233.90	24.36	
2200.00	2155.22	17.39	127.01	2122.03	6.86	4.76	49.56	255.79	245.11	23.95	
2300.00	2254.35	17.39	127.01	2216.63	7.46	5.04	51.33	265.64	254.20	23.22	
2400.00	2353.46	17.39	127.01	2311.21	8.06	5.32	53.37	274.84	262.53	22.33	
2500.00	2452.57	17.39	127.01	2405.79	8.66	5.60	55.27	284.37	271.15	21.51	
2600.00	2551.68	17.39	127.01	2500.38	9.27	5.89	57.05	294.19	280.04	20.79	
2700.00	2650.79	17.39	127.01	2594.96	9.89	6.17	58.71	304.28	289.13	20.10	
2800.00	2749.91	17.39	127.01	2689.55	10.50	6.46	60.26	314.60	298.40	19.42	
2900.00	2849.02	17.39	127.01	2784.13	11.12	6.76	61.72	325.14	307.87	18.83	
3000.00	2948.13	17.39	127.01	2878.71	11.74	7.05	63.08	335.88	317.52	18.30	
3100.00	3047.24	17.39	127.01	2973.30	12.36	7.34	64.36	346.79	327.35	17.83	
3200.00	3146.35	17.39	127.01	3067.88	12.99	7.64	65.56	357.87	337.31	17.41	
3300.00	3245.47	17.39	127.01	3162.47	13.61	7.93	66.69	369.09	347.37	17.00	

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
3400.00	3344.58	17.39	127.01	3257.05	14.24	8.23	67.76	380.44	357.57	16.63	
3500.00	3443.69	17.39	127.01	3351.64	14.86	8.53	68.76	391.92	367.87	16.29	
3600.00	3542.80	17.39	127.01	3446.22	15.49	8.82	69.70	403.51	378.26	15.98	
3700.00	3641.91	17.39	127.01	3540.80	16.12	9.12	70.59	415.20	388.75	15.70	
3800.00	3741.03	17.39	127.01	3635.39	16.75	9.42	71.43	426.99	399.33	15.44	
3900.00	3840.14	17.39	127.01	3729.97	17.38	9.72	72.23	438.86	410.00	15.21	
4000.00	3939.25	17.39	127.01	3824.56	18.01	10.02	72.99	450.81	420.75	14.99	
4100.00	4038.36	17.39	127.01	3919.14	18.64	10.32	73.70	462.84	431.57	14.80	
4200.00	4137.47	17.39	127.01	4013.72	19.27	10.62	74.38	474.93	442.46	14.62	
4300.00	4236.58	17.39	127.01	4108.31	19.90	10.92	75.03	487.09	453.41	14.46	
4400.00	4335.70	17.39	127.01	4202.89	20.53	11.22	75.64	499.30	464.39	14.30	
4500.00	4434.81	17.39	127.01	4297.48	21.16	11.52	76.23	511.57	475.43	14.15	
4600.00	4533.92	17.39	127.01	4392.06	21.80	11.82	76.79	523.89	486.51	14.02	
4700.00	4633.03	17.39	127.01	4486.65	22.43	12.13	77.32	536.26	497.64	13.89	
4800.00	4732.14	17.39	127.01	4581.23	23.06	12.43	77.83	548.67	508.82	13.77	
4900.00	4831.26	17.39	127.01	4675.81	23.69	12.73	78.31	561.12	520.03	13.66	
5000.00	4930.37	17.39	127.01	4770.40	24.33	13.03	78.78	573.60	531.29	13.56	
5100.00	5029.48	17.39	127.01	4864.98	24.96	13.34	79.22	586.13	542.58	13.46	
5200.00	5128.59	17.39	127.01	4959.57	25.59	13.64	79.65	598.68	553.91	13.37	
5300.00	5227.70	17.39	127.01	5054.15	26.23	13.94	80.06	611.27	565.26	13.29	
5400.00	5326.82	17.39	127.01	5148.73	26.86	14.24	80.45	623.89	576.65	13.21	
5500.00	5425.93	17.39	127.01	5243.32	27.49	14.55	80.83	636.54	588.07	13.13	
5600.00	5525.04	17.39	127.01	5337.90	28.13	14.85	81.19	649.21	599.51	13.06	
5700.00	5624.15	17.39	127.01	5432.49	28.76	15.15	81.54	661.90	610.98	13.00	
5800.00	5723.26	17.39	127.01	5527.07	29.40	15.46	81.87	674.62	622.46	12.93	
5900.00	5822.37	17.39	127.01	5621.66	30.03	15.76	82.19	687.36	633.96	12.87	
6000.00	5921.49	17.39	127.01	5716.24	30.66	16.07	82.51	700.13	645.48	12.81	
6100.00	6020.60	17.39	127.01	5810.83	31.30	16.37	82.14	712.90	657.02	12.76	
6200.00	6119.72	17.39	127.01	5905.41	31.93	16.67	68.91	724.61	667.93	12.78	
6300.00	6217.41	17.39	127.01	5998.65	32.56	16.97	0.07	734.70	677.68	12.88	
6400.00	6311.79	17.39	127.01	6088.71	33.16	17.26	301.40	743.98	687.12	13.08	
6500.00	6398.19	14.15	140.38	6171.67	33.58	17.51	287.75	754.01	697.93	13.45	
6600.00	6486.15	11.61	170.27	6257.50	33.60	17.61	281.47	765.98	711.04	13.94	
6700.00	6579.10	13.10	204.89	6348.42	33.27	17.53	277.32	779.86	726.21	14.53	
6800.00	6678.27	18.20	227.86	6443.97	32.59	17.23	274.08	795.43	743.09	15.20	
6900.00	6785.16	25.34	240.73	6543.23	31.55	16.64	271.29	812.29	761.11	15.87	
7000.00	6901.56	33.83	248.54	6644.40	30.21	15.66	268.78	829.83	779.43	16.47	
7100.00	7029.43	43.51	253.86	6744.13	28.76	14.20	266.47	847.22	797.21	16.94	
7200.00	7170.55	54.40	257.87	6836.69	27.54	12.22	264.36	863.40	813.02	17.14	
7300.00	7325.91	66.49	261.19	6913.20	27.02	10.19	262.56	877.09	825.23	16.91	
7400.00	7494.65	79.69	264.15	6962.19	27.54	9.68	261.21	886.92	832.51	16.30	
7500.00	7652.21	90.00	266.28	6974.00	28.90	11.33	260.63	890.94	833.32	15.46	
7600.00	7752.20	90.00	266.28	6974.00	29.98	11.82	260.65	892.59	832.74	14.91	
7700.00	7852.19	90.00	266.28	6974.00	31.26	12.34	260.67	894.24	831.67	14.29	
7800.00	7952.17	90.00	266.28	6974.00	32.72	12.89	260.68	895.90	830.32	13.66	
7900.00	8052.16	90.00	266.28	6974.00	34.34	13.46	260.70	897.55	828.63	13.02	
8000.00	8152.14	90.00	266.28	6974.00	36.11	14.05	260.72	899.21	826.71	12.40	
8100.00	8252.13	90.00	266.28	6974.00	38.00	14.65	260.74	900.86	824.59	11.81	
8200.00	8352.11	90.00	266.28	6974.00	39.99	15.27	260.75	902.51	822.15	11.23	
8300.00	8452.10	90.00	266.28	6974.00	42.08	15.90	260.77	904.17	819.60	10.69	
8400.00	8552.09	90.00	266.28	6974.00	44.24	16.54	260.79	905.82	816.91	10.19	
8500.00	8652.07	90.00	266.28	6974.00	46.47	17.19	260.80	907.48	814.10	9.72	
8600.00	8752.06	90.00	266.28	6974.00	48.76	17.84	260.82	909.13	811.17	9.28	
8700.00	8852.04	90.00	266.28	6974.00	51.10	18.50	260.84	910.79	808.15	8.87	
8800.00	8952.03	90.00	266.28	6974.00	53.48	19.17	260.85	912.44	805.05	8.50	
8900.00	9052.02	90.00	266.28	6974.00	55.91	19.84	260.87	914.10	801.87	8.14	
9000.00	9152.00	90.00	266.28	6974.00	58.36	20.51	260.89	915.75	798.63	7.82	
9100.00	9251.99	90.00	266.28	6974.00	60.85	21.19	260.90	917.41	795.33	7.51	

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
9200.00	9351.97	90.00	266.28	6974.00	63.36	21.87	260.92	919.06	791.98	7.23	
9300.00	9451.96	90.00	266.28	6974.00	65.89	22.56	260.94	920.72	788.59	6.97	
9400.00	9551.95	90.00	266.28	6974.00	68.45	23.24	260.95	922.37	785.16	6.72	
9500.00	9651.93	90.00	266.28	6974.00	71.02	23.93	260.97	924.03	781.69	6.49	
9600.00	9751.92	90.00	266.28	6974.00	73.61	24.62	260.99	925.68	778.20	6.28	
9700.00	9851.90	90.00	266.28	6974.00	76.21	25.32	261.00	927.34	774.67	6.07	
9800.00	9951.89	90.00	266.28	6974.00	78.83	26.01	261.02	928.99	771.12	5.88	
9900.00	10051.88	90.00	266.28	6974.00	81.46	26.71	261.04	930.65	767.55	5.71	
10000.00	10151.86	90.00	266.28	6974.00	84.10	27.41	261.05	932.30	763.96	5.54	
10100.00	10251.85	90.00	266.28	6974.00	86.74	28.11	261.07	933.96	760.35	5.38	
10200.00	10351.83	90.00	266.28	6974.00	89.40	28.82	261.08	935.62	756.72	5.23	
10300.00	10451.82	90.00	266.28	6974.00	92.07	29.52	261.10	937.27	753.08	5.09	
10400.00	10551.81	90.00	266.28	6974.00	94.74	30.23	261.11	938.93	749.43	4.95	
10500.00	10651.79	90.00	266.28	6974.00	97.42	30.93	261.13	940.58	745.76	4.83	
10600.00	10751.78	90.00	266.28	6974.00	100.11	31.64	261.15	942.24	742.08	4.71	
10700.00	10851.76	90.00	266.28	6974.00	102.80	32.35	261.16	943.90	738.38	4.59	
10800.00	10951.75	90.00	266.28	6974.00	105.50	33.06	261.18	945.55	734.68	4.48	
10900.00	11051.74	90.00	266.28	6974.00	108.20	33.77	261.19	947.21	730.97	4.38	
11000.00	11151.72	90.00	266.28	6974.00	110.91	34.48	261.21	948.87	727.25	4.28	
11100.00	11251.71	90.00	266.28	6974.00	113.62	35.20	261.22	950.52	723.52	4.19	
11200.00	11351.69	90.00	266.28	6974.00	116.34	35.91	261.24	952.18	719.78	4.10	
11300.00	11451.68	90.00	266.28	6974.00	119.06	36.62	261.25	953.83	716.04	4.01	
11400.00	11551.67	90.00	266.28	6974.00	121.78	37.34	261.27	955.49	712.28	3.93	
11500.00	11651.65	90.00	266.28	6974.00	124.51	38.05	261.29	957.15	708.53	3.85	
11600.00	11751.64	90.00	266.28	6974.00	127.24	38.77	261.30	958.80	704.76	3.77	
11700.00	11851.62	90.00	266.28	6974.00	129.97	39.49	261.32	960.46	701.00	3.70	
11800.00	11951.61	90.00	266.28	6974.00	132.71	40.20	261.33	962.12	697.22	3.63	
11900.00	12051.60	90.00	266.28	6974.00	135.44	40.92	261.35	963.78	693.44	3.57	
12000.00	12151.58	90.00	266.28	6974.00	138.18	41.64	261.36	965.43	689.66	3.50	
12100.00	12251.57	90.00	266.28	6974.00	140.92	42.36	261.38	967.09	685.87	3.44	
12200.00	12351.55	90.00	266.28	6974.00	143.67	43.08	261.39	968.75	682.08	3.38	
12300.00	12451.54	90.00	266.28	6974.00	146.41	43.80	261.41	970.40	678.28	3.32	
12400.00	12551.52	90.00	266.28	6974.00	149.16	44.52	261.42	972.06	674.48	3.27	
12500.00	12651.51	90.00	266.28	6974.00	151.91	45.24	261.43	973.72	670.68	3.21	
12600.00	12751.50	90.00	266.28	6974.00	154.66	45.96	261.45	975.38	666.87	3.16	
12700.00	12851.48	90.00	266.28	6974.00	157.41	46.68	261.46	977.03	663.06	3.11	
12800.00	12951.47	90.00	266.28	6974.00	160.17	47.40	261.48	978.69	659.25	3.06	
12900.00	13051.45	90.00	266.28	6974.00	162.92	48.13	261.49	980.35	655.44	3.02	
13000.00	13151.44	90.00	266.28	6974.00	165.68	48.85	261.51	982.01	651.62	2.97	
13100.00	13251.43	90.00	266.28	6974.00	168.44	49.57	261.52	983.66	647.80	2.93	
13200.00	13351.41	90.00	266.28	6974.00	171.20	50.29	261.54	985.32	643.97	2.89	
13300.00	13451.40	90.00	266.28	6974.00	173.96	51.02	261.55	986.98	640.15	2.85	
13400.00	13551.38	90.00	266.28	6974.00	176.72	51.74	261.57	988.64	636.32	2.81	
13500.00	13651.37	90.00	266.28	6974.00	179.48	52.47	261.58	990.30	632.49	2.77	
13600.00	13751.36	90.00	266.28	6974.00	182.25	53.19	261.59	991.95	628.65	2.73	
13700.00	13851.34	90.00	266.28	6974.00	185.01	53.91	261.61	993.61	624.82	2.69	
13800.00	13951.33	90.00	266.28	6974.00	187.78	54.64	261.62	995.27	620.98	2.66	
13900.00	14051.31	90.00	266.28	6974.00	190.54	55.36	261.64	996.93	617.14	2.62	
14000.00	14151.30	90.00	266.28	6974.00	193.31	56.09	261.65	998.59	613.30	2.59	
14100.00	14251.29	90.00	266.28	6974.00	196.08	56.81	261.66	1000.24	609.46	2.56	
14200.00	14351.27	90.00	266.28	6974.00	198.85	57.54	261.68	1001.90	605.62	2.53	
14300.00	14451.26	90.00	266.28	6974.00	201.62	58.27	261.69	1003.56	601.77	2.50	SF(Lo)
14400.00	14551.24	90.00	266.28	6974.00	204.39	58.99	261.71	1005.22	597.92	2.47	SF(Lo)
14500.00	14651.23	90.00	266.28	6974.00	207.16	59.72	261.72	1006.88	594.08	2.44	SF(Lo)
14600.00	14751.22	90.00	266.28	6974.00	209.93	60.44	261.73	1008.54	590.22	2.41	SF(Lo)
14700.00	14851.20	90.00	266.28	6974.00	212.70	61.17	261.75	1010.20	586.37	2.38	SF(Lo)
14800.00	14951.19	90.00	266.28	6974.00	215.47	61.90	261.76	1011.85	582.52	2.36	SF(Lo)
14900.00	15051.17	90.00	266.28	6974.00	218.25	62.62	261.77	1013.51	578.67	2.33	SF(Lo)

5D Anti-Collision Report

Secondary Well: Goetzel 13N-30C-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
15000.00	15151.16	90.00	266.28	6974.00	221.02	63.35	261.79	1015.17	574.81	2.31	SF(Lo)
15100.00	15251.15	90.00	266.28	6974.00	223.80	64.08	261.80	1016.83	570.95	2.28	SF(Lo)
15200.00	15286.68	90.00	266.28	6974.00	224.78	64.33	261.81	1020.53	571.38	2.27	SF(Lo)
15300.00	15286.68	90.00	266.28	6974.00	224.78	64.33	261.81	1033.32	585.63	2.31	SF(Lo)
15322.07	15286.68	90.00	266.28	6974.00	224.78	64.33	261.81	1037.42	590.60	2.32	SF(Lo)
Secondary Well: Goetzel 13N-30A-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	0.00	0.00	0.00	180.03	100.19	99.45	136.62	
100.00	100.00	0.00	0.00	100.00	0.11	0.11	180.03	100.19	99.23	105.02	
200.00	200.00	0.00	0.00	200.00	0.34	0.34	180.03	100.19	98.78	71.38	
300.00	300.00	0.00	0.00	300.00	0.56	0.56	180.03	100.19	98.33	54.07	
400.00	400.00	0.00	0.00	400.00	0.79	0.79	180.03	100.19	97.88	43.51	
500.00	500.00	0.00	0.00	500.00	1.01	1.01	180.03	100.19	97.43	36.40	
600.00	600.00	0.00	0.00	600.00	1.24	1.24	180.03	100.19	96.98	31.29	
700.00	700.00	0.00	0.00	700.00	1.46	1.46	180.03	100.19	96.54	27.44	
800.00	798.86	0.98	131.86	798.85	1.67	1.67	179.85	100.47	96.38	24.59	
900.00	896.45	2.93	131.86	896.39	1.85	1.85	178.47	102.78	98.29	22.89	
1000.00	993.71	4.87	131.86	993.42	2.05	2.04	175.90	107.58	102.68	21.97	
1100.00	1090.41	6.81	131.86	1089.61	2.27	2.23	172.48	115.12	109.80	21.64	
1200.00	1186.34	8.73	131.86	1184.65	2.51	2.42	168.60	125.72	119.95	21.79	
1300.00	1281.29	10.63	131.86	1278.25	2.79	2.62	164.63	139.60	133.40	22.51	
1400.00	1375.07	12.50	131.86	1370.13	3.12	2.82	160.85	156.91	150.26	23.60	
1500.00	1467.60	14.35	131.86	1460.12	3.49	3.03	56.42	177.44	170.37	25.09	
1600.00	1559.28	16.19	131.86	1548.56	3.91	3.24	53.76	199.61	192.15	26.73	
1700.00	1650.16	18.00	131.86	1635.42	4.38	3.46	51.95	222.86	214.96	28.20	
1800.00	1743.62	18.97	131.86	1723.93	4.92	3.70	50.79	246.66	238.31	29.54	
1900.00	1841.14	18.97	131.86	1816.16	5.52	3.97	50.32	268.75	259.87	30.28	
2000.00	1939.11	18.97	131.86	1908.81	6.14	4.25	50.45	288.67	279.22	30.55	
2100.00	2037.40	18.97	131.86	2001.76	6.77	4.53	51.07	306.44	296.38	30.44	
2200.00	2135.90	18.97	131.86	2094.91	7.41	4.82	52.11	322.18	311.41	29.91	
2300.00	2234.49	18.97	131.86	2188.14	8.06	5.11	53.55	336.00	324.46	29.10	
2400.00	2333.08	18.97	131.86	2281.38	8.72	5.40	55.28	349.21	336.79	28.10	
2500.00	2431.67	18.97	131.86	2374.61	9.37	5.70	56.87	362.71	349.36	27.17	
2600.00	2530.26	18.97	131.86	2467.85	10.04	6.00	58.36	376.47	362.18	26.34	
2700.00	2628.85	18.97	131.86	2561.08	10.70	6.30	59.74	390.47	375.18	25.55	
2800.00	2727.44	18.97	131.86	2654.32	11.37	6.60	61.02	404.67	388.34	24.78	
2900.00	2826.03	18.97	131.86	2747.56	12.04	6.90	62.22	419.05	401.65	24.08	
3000.00	2924.62	18.97	131.86	2840.79	12.71	7.21	63.34	433.61	415.12	23.46	
3100.00	3023.21	18.97	131.86	2934.03	13.38	7.51	64.38	448.32	428.73	22.90	
3200.00	3121.80	18.97	131.86	3027.26	14.06	7.82	65.36	463.16	442.48	22.39	
3300.00	3220.39	18.97	131.86	3120.50	14.73	8.13	66.28	478.13	456.34	21.94	
3400.00	3318.98	18.97	131.86	3213.73	15.41	8.44	67.14	493.21	470.30	21.53	
3500.00	3417.57	18.97	131.86	3306.97	16.09	8.75	67.95	508.40	484.35	21.14	
3600.00	3516.16	18.97	131.86	3400.20	16.76	9.06	68.72	523.68	498.44	20.75	
3700.00	3614.75	18.97	131.86	3493.44	17.44	9.37	69.44	539.05	512.61	20.39	
3800.00	3713.34	18.97	131.86	3586.67	18.12	9.68	70.12	554.49	526.86	20.07	
3900.00	3811.93	18.97	131.86	3679.91	18.80	9.99	70.76	570.01	541.18	19.77	
4000.00	3910.52	18.97	131.86	3773.14	19.48	10.30	71.37	585.60	555.56	19.49	
4100.00	4009.11	18.97	131.86	3866.38	20.16	10.61	71.95	601.24	570.00	19.24	
4200.00	4107.70	18.97	131.86	3959.61	20.84	10.92	72.50	616.95	584.50	19.01	
4300.00	4206.29	18.97	131.86	4052.85	21.52	11.24	73.02	632.71	599.04	18.80	
4400.00	4304.88	18.97	131.86	4146.09	22.20	11.55	73.52	648.51	613.64	18.60	
4500.00	4403.47	18.97	131.86	4239.32	22.88	11.86	73.99	664.36	628.28	18.41	
4600.00	4502.06	18.97	131.86	4332.56	23.56	12.17	74.44	680.26	642.96	18.24	
4700.00	4600.65	18.97	131.86	4425.79	24.24	12.49	74.87	696.19	657.68	18.08	
4800.00	4699.24	18.97	131.86	4519.03	24.92	12.80	75.29	712.16	672.44	17.93	

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
4900.00	4797.83	18.97	131.86	4612.26	25.60	13.12	75.68	728.16	687.23	17.79	
5000.00	4896.42	18.97	131.86	4705.50	26.29	13.43	76.05	744.20	702.05	17.66	
5100.00	4995.01	18.97	131.86	4798.73	26.97	13.74	76.42	760.26	716.90	17.53	
5200.00	5093.60	18.97	131.86	4891.97	27.65	14.06	76.76	776.36	731.78	17.42	
5300.00	5192.19	18.97	131.86	4985.20	28.33	14.37	77.09	792.48	746.69	17.31	
5400.00	5290.78	18.97	131.86	5078.44	29.02	14.69	77.41	808.62	761.62	17.20	
5500.00	5389.37	18.97	131.86	5171.67	29.70	15.00	77.72	824.79	776.55	17.10	
5600.00	5487.96	18.97	131.86	5264.91	30.38	15.32	78.01	840.98	791.51	17.00	
5700.00	5586.55	18.97	131.86	5358.14	31.06	15.63	78.29	857.20	806.49	16.90	
5800.00	5685.14	18.97	131.86	5451.38	31.75	15.95	78.57	873.43	821.48	16.82	
5900.00	5783.73	18.97	131.86	5544.62	32.43	16.26	78.83	889.68	836.50	16.73	
6000.00	5882.32	18.97	131.86	5637.85	33.11	16.58	79.08	905.94	851.53	16.65	
6100.00	5980.92	18.97	131.86	5731.09	33.80	16.89	78.70	922.22	866.59	16.58	
6200.00	6079.48	18.97	131.86	5824.30	34.48	17.21	65.89	937.93	881.48	16.62	
6300.00	6176.60	18.97	131.86	5916.14	35.15	17.52	357.76	952.69	895.93	16.78	
6400.00	6264.98	15.91	145.46	6000.27	35.59	17.78	300.31	967.18	910.65	17.11	
6500.00	6353.30	13.74	172.04	6085.75	35.60	17.91	288.22	982.20	926.20	17.54	
6600.00	6444.89	15.02	201.41	6174.58	35.19	17.87	283.41	997.60	942.37	18.06	
6700.00	6540.38	19.39	222.87	6265.87	34.38	17.65	280.68	1013.15	958.83	18.65	
6800.00	6640.52	25.63	236.16	6358.39	33.19	17.20	278.80	1028.56	975.17	19.26	
6900.00	6746.06	33.00	244.65	6450.40	31.71	16.44	277.32	1043.52	990.92	19.84	
7000.00	6857.82	41.21	250.53	6539.48	30.10	15.29	276.05	1057.62	1005.39	20.25	
7100.00	6976.48	50.16	254.96	6622.31	28.60	13.68	274.91	1070.41	1018.12	20.47	
7200.00	7102.51	59.81	258.54	6694.55	27.57	11.71	273.88	1081.38	1028.42	20.42	
7300.00	7235.93	70.11	261.64	6750.95	27.32	9.98	272.95	1089.99	1035.59	20.04	
7400.00	7376.05	80.98	264.48	6785.88	27.91	9.78	272.18	1095.71	1039.17	19.38	
7500.00	7512.11	90.00	266.70	6795.00	29.14	11.45	271.77	1097.98	1038.90	18.58	
7600.00	7612.11	90.00	266.70	6795.00	30.20	11.96	271.77	1098.94	1037.59	17.91	
7700.00	7712.10	90.00	266.70	6795.00	31.47	12.50	271.77	1099.89	1035.78	17.16	
7800.00	7812.10	90.00	266.70	6795.00	32.92	13.07	271.77	1100.85	1033.62	16.37	
7900.00	7912.09	90.00	266.70	6795.00	34.53	13.66	271.77	1101.81	1031.20	15.60	
8000.00	8012.09	90.00	266.70	6795.00	36.29	14.28	271.77	1102.77	1028.60	14.87	
8100.00	8112.08	90.00	266.70	6795.00	38.17	14.90	271.77	1103.72	1025.55	14.12	
8200.00	8212.08	90.00	266.70	6795.00	40.16	15.54	271.76	1104.68	1022.54	13.45	
8300.00	8312.08	90.00	266.70	6795.00	42.23	16.19	271.76	1105.64	1019.17	12.79	
8400.00	8412.07	90.00	266.70	6795.00	44.39	16.85	271.76	1106.60	1015.69	12.17	
8500.00	8512.07	90.00	266.70	6795.00	46.62	17.51	271.76	1107.55	1012.11	11.60	
8600.00	8612.06	90.00	266.70	6795.00	48.90	18.18	271.76	1108.51	1008.44	11.08	
8700.00	8712.06	90.00	266.70	6795.00	51.23	18.85	271.76	1109.47	1004.68	10.59	
8800.00	8812.05	90.00	266.70	6795.00	53.61	19.53	271.75	1110.42	1000.84	10.13	
8900.00	8912.05	90.00	266.70	6795.00	56.03	20.21	271.75	1111.38	996.92	9.71	
9000.00	9012.04	90.00	266.70	6795.00	58.48	20.90	271.75	1112.34	992.94	9.32	
9100.00	9112.04	90.00	266.70	6795.00	60.96	21.58	271.75	1113.30	988.90	8.95	
9200.00	9212.03	90.00	266.70	6795.00	63.47	22.27	271.75	1114.25	984.81	8.61	
9300.00	9312.03	90.00	266.70	6795.00	66.00	22.97	271.75	1115.21	980.67	8.29	
9400.00	9412.02	90.00	266.70	6795.00	68.56	23.66	271.75	1116.17	976.50	7.99	
9500.00	9512.02	90.00	266.70	6795.00	71.13	24.36	271.74	1117.13	972.29	7.71	
9600.00	9612.02	90.00	266.70	6795.00	73.71	25.05	271.74	1118.08	968.05	7.45	
9700.00	9712.01	90.00	266.70	6795.00	76.32	25.75	271.74	1119.04	963.78	7.21	
9800.00	9812.01	90.00	266.70	6795.00	78.93	26.46	271.74	1120.00	959.48	6.98	
9900.00	9912.00	90.00	266.70	6795.00	81.56	27.16	271.74	1120.96	955.17	6.76	
10000.00	10012.00	90.00	266.70	6795.00	84.20	27.86	271.74	1121.91	950.83	6.56	
10100.00	10111.99	90.00	266.70	6795.00	86.85	28.57	271.74	1122.87	946.47	6.37	
10200.00	10211.99	90.00	266.70	6795.00	89.51	29.28	271.73	1123.83	942.10	6.18	
10300.00	10311.98	90.00	266.70	6795.00	92.17	29.99	271.73	1124.78	937.71	6.01	
10400.00	10411.98	90.00	266.70	6795.00	94.85	30.69	271.73	1125.74	933.31	5.85	
10500.00	10511.97	90.00	266.70	6795.00	97.53	31.41	271.73	1126.70	928.89	5.70	
10600.00	10611.97	90.00	266.70	6795.00	100.22	32.12	271.73	1127.66	924.47	5.55	

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
10700.00	10711.97	90.00	266.70	6795.00	102.91	32.83	271.73	1128.61	920.03	5.41	
10800.00	10811.96	90.00	266.70	6795.00	105.61	33.54	271.72	1129.57	915.58	5.28	
10900.00	10911.96	90.00	266.70	6795.00	108.31	34.26	271.72	1130.53	911.12	5.15	
11000.00	11011.95	90.00	266.70	6795.00	111.02	34.97	271.72	1131.49	906.65	5.03	
11100.00	11111.95	90.00	266.70	6795.00	113.73	35.69	271.72	1132.44	902.17	4.92	
11200.00	11211.94	90.00	266.70	6795.00	116.45	36.40	271.72	1133.40	897.69	4.81	
11300.00	11311.94	90.00	266.70	6795.00	119.17	37.12	271.72	1134.36	893.20	4.70	
11400.00	11411.93	90.00	266.70	6795.00	121.89	37.83	271.72	1135.32	888.70	4.60	
11500.00	11511.93	90.00	266.70	6795.00	124.62	38.55	271.71	1136.27	884.20	4.51	
11600.00	11611.92	90.00	266.70	6795.00	127.35	39.27	271.71	1137.23	879.69	4.42	
11700.00	11711.92	90.00	266.70	6795.00	130.09	39.99	271.71	1138.19	875.18	4.33	
11800.00	11811.91	90.00	266.70	6795.00	132.82	40.71	271.71	1139.14	870.66	4.24	
11900.00	11911.91	90.00	266.70	6795.00	135.56	41.43	271.71	1140.10	866.13	4.16	
12000.00	12011.91	90.00	266.70	6795.00	138.30	42.15	271.71	1141.06	861.60	4.08	
12100.00	12111.90	90.00	266.70	6795.00	141.04	42.87	271.71	1142.02	857.07	4.01	
12200.00	12211.90	90.00	266.70	6795.00	143.79	43.59	271.70	1142.97	852.53	3.94	
12300.00	12311.89	90.00	266.70	6795.00	146.54	44.31	271.70	1143.93	847.99	3.87	
12400.00	12411.89	90.00	266.70	6795.00	149.29	45.03	271.70	1144.89	843.45	3.80	
12500.00	12511.88	90.00	266.70	6795.00	152.04	45.75	271.70	1145.85	838.90	3.73	
12600.00	12611.88	90.00	266.70	6795.00	154.79	46.48	271.70	1146.80	834.35	3.67	
12700.00	12711.87	90.00	266.70	6795.00	157.54	47.20	271.70	1147.76	829.79	3.61	
12800.00	12811.87	90.00	266.70	6795.00	160.30	47.92	271.70	1148.72	825.24	3.55	
12900.00	12911.86	90.00	266.70	6795.00	163.06	48.65	271.69	1149.68	820.68	3.49	
13000.00	13011.86	90.00	266.70	6795.00	165.82	49.37	271.69	1150.63	816.11	3.44	
13100.00	13111.86	90.00	266.70	6795.00	168.58	50.09	271.69	1151.59	811.55	3.39	
13200.00	13211.85	90.00	266.70	6795.00	171.34	50.82	271.69	1152.55	806.98	3.34	
13300.00	13311.85	90.00	266.70	6795.00	174.10	51.54	271.69	1153.50	802.41	3.29	
13400.00	13411.84	90.00	266.70	6795.00	176.86	52.27	271.69	1154.46	797.84	3.24	
13500.00	13511.84	90.00	266.70	6795.00	179.63	52.99	271.69	1155.42	793.27	3.19	
13600.00	13611.83	90.00	266.70	6795.00	182.39	53.72	271.68	1156.38	788.69	3.15	
13700.00	13711.83	90.00	266.70	6795.00	185.16	54.44	271.68	1157.33	784.11	3.10	
13800.00	13811.82	90.00	266.70	6795.00	187.93	55.17	271.68	1158.29	779.53	3.06	
13900.00	13911.82	90.00	266.70	6795.00	190.69	55.89	271.68	1159.25	774.95	3.02	
14000.00	14011.81	90.00	266.70	6795.00	193.46	56.62	271.68	1160.21	770.37	2.98	
14100.00	14111.81	90.00	266.70	6795.00	196.23	57.34	271.68	1161.16	765.78	2.94	
14200.00	14211.80	90.00	266.70	6795.00	199.00	58.07	271.68	1162.12	761.20	2.90	
14300.00	14311.80	90.00	266.70	6795.00	201.78	58.80	271.68	1163.08	756.61	2.86	
14400.00	14411.80	90.00	266.70	6795.00	204.55	59.52	271.67	1164.04	752.02	2.83	
14500.00	14511.79	90.00	266.70	6795.00	207.32	60.25	271.67	1164.99	747.43	2.79	
14600.00	14611.79	90.00	266.70	6795.00	210.09	60.98	271.67	1165.95	742.84	2.76	
14700.00	14711.78	90.00	266.70	6795.00	212.87	61.70	271.67	1166.91	738.25	2.72	
14800.00	14811.78	90.00	266.70	6795.00	215.64	62.43	271.67	1167.86	733.65	2.69	
14900.00	14911.77	90.00	266.70	6795.00	218.42	63.16	271.67	1168.82	729.06	2.66	
15000.00	15011.77	90.00	266.70	6795.00	221.19	63.89	271.67	1169.78	724.46	2.63	
15100.00	15111.76	90.00	266.70	6795.00	223.97	64.61	271.66	1170.74	719.87	2.60	
15200.00	15136.85	90.00	266.70	6795.00	224.67	64.80	271.66	1174.09	720.06	2.59	
15300.00	15136.85	90.00	266.70	6795.00	224.67	64.80	271.66	1185.62	732.09	2.61	
15322.07	15136.85	90.00	266.70	6795.00	224.67	64.80	271.66	1189.29	736.28	2.63	
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	120.22	119.49	163.94	
100.00	100.00	0.00	0.00	100.00	0.11	0.11	179.95	120.22	119.27	126.03	
200.00	200.00	0.00	0.00	200.00	0.34	0.34	179.95	120.22	118.82	85.66	
300.00	300.00	0.00	0.00	300.00	0.56	0.56	179.95	120.22	118.37	64.88	
400.00	400.00	0.00	0.00	400.00	0.79	0.79	179.95	120.22	117.92	52.21	
500.00	500.00	0.00	0.00	500.00	1.01	1.01	179.95	120.22	117.47	43.68	

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
600.00	600.00	0.00	0.00	600.00	1.24	1.24	179.95	120.22	117.02	37.55	
700.00	696.93	1.94	138.18	696.91	1.43	1.43	179.43	121.49	117.87	33.59	
800.00	793.63	3.87	138.18	793.49	1.62	1.61	177.95	125.35	121.32	31.13	
900.00	889.90	5.80	138.18	889.41	1.82	1.80	175.69	131.94	127.50	29.72	
1000.00	985.52	7.71	138.18	984.35	2.05	1.99	172.90	141.47	136.59	28.99	
1100.00	1080.27	9.61	138.18	1078.03	2.32	2.19	169.85	154.12	148.80	28.98	
1200.00	1173.98	11.48	138.18	1170.15	2.63	2.40	166.77	170.02	164.26	29.52	
1300.00	1266.46	13.33	138.18	1260.47	2.99	2.60	163.82	189.24	183.04	30.49	
1400.00	1357.55	15.15	138.18	1348.75	3.39	2.82	161.12	211.79	205.14	31.85	
1500.00	1447.19	16.94	138.18	1434.90	3.84	3.04	57.64	237.39	230.31	33.56	
1600.00	1535.83	18.72	138.18	1519.28	4.33	3.26	55.62	264.52	257.04	35.39	
1700.00	1628.43	19.47	138.18	1606.66	4.91	3.51	54.24	292.24	284.30	36.81	
1800.00	1724.96	19.47	138.18	1697.67	5.53	3.79	53.53	318.28	309.85	37.74	
1900.00	1822.01	19.47	138.18	1789.17	6.17	4.07	53.39	342.33	333.35	38.14	
2000.00	1919.46	19.47	138.18	1881.05	6.82	4.36	53.70	364.38	354.81	38.10	
2100.00	2017.19	19.47	138.18	1973.19	7.47	4.65	54.39	384.48	374.28	37.68	
2200.00	2115.08	19.47	138.18	2065.48	8.14	4.95	55.42	402.76	391.84	36.89	
2300.00	2213.02	19.47	138.18	2157.82	8.81	5.25	56.77	419.36	407.65	35.83	
2400.00	2310.94	19.47	138.18	2250.14	9.48	5.55	58.43	435.46	422.88	34.62	
2500.00	2408.86	19.47	138.18	2342.46	10.16	5.85	59.98	451.89	438.37	33.41	
2600.00	2506.78	19.47	138.18	2434.78	10.84	6.16	61.42	468.63	454.12	32.30	
2700.00	2604.70	19.47	138.18	2527.10	11.52	6.46	62.75	485.64	470.13	31.30	
2800.00	2702.63	19.47	138.18	2619.43	12.20	6.77	64.00	502.89	486.36	30.42	
2900.00	2800.55	19.47	138.18	2711.75	12.88	7.08	65.17	520.36	502.77	29.58	
3000.00	2898.47	19.47	138.18	2804.07	13.57	7.39	66.26	538.03	519.35	28.81	
3100.00	2996.39	19.47	138.18	2896.39	14.25	7.70	67.28	555.88	536.10	28.11	
3200.00	3094.31	19.47	138.18	2988.71	14.94	8.01	68.24	573.89	553.01	27.49	
3300.00	3192.23	19.47	138.18	3081.03	15.62	8.33	69.14	592.04	570.03	26.90	
3400.00	3290.15	19.47	138.18	3173.36	16.31	8.64	69.99	610.33	587.18	26.36	
3500.00	3388.07	19.47	138.18	3265.68	17.00	8.95	70.78	628.74	604.45	25.88	
3600.00	3486.00	19.47	138.18	3358.00	17.68	9.27	71.54	647.27	621.82	25.44	
3700.00	3583.92	19.47	138.18	3450.32	18.37	9.58	72.25	665.89	639.29	25.03	
3800.00	3681.84	19.47	138.18	3542.64	19.06	9.89	72.92	684.61	656.82	24.63	
3900.00	3779.76	19.47	138.18	3634.96	19.75	10.21	73.56	703.42	674.43	24.27	
4000.00	3877.68	19.47	138.18	3727.28	20.44	10.52	74.16	722.31	692.12	23.93	
4100.00	3975.60	19.47	138.18	3819.61	21.13	10.84	74.73	741.27	709.88	23.62	
4200.00	4073.52	19.47	138.18	3911.93	21.82	11.16	75.28	760.30	727.71	23.33	
4300.00	4171.45	19.47	138.18	4004.25	22.51	11.47	75.80	779.39	745.59	23.06	
4400.00	4269.37	19.47	138.18	4096.57	23.20	11.79	76.29	798.54	763.54	22.82	
4500.00	4367.29	19.47	138.18	4188.89	23.89	12.10	76.76	817.75	781.54	22.59	
4600.00	4465.21	19.47	138.18	4281.21	24.58	12.42	77.21	837.00	799.59	22.37	
4700.00	4563.13	19.47	138.18	4373.53	25.27	12.74	77.64	856.31	817.69	22.17	
4800.00	4661.05	19.47	138.18	4465.86	25.96	13.05	78.05	875.65	835.83	21.99	
4900.00	4758.97	19.47	138.18	4558.18	26.65	13.37	78.44	895.04	854.01	21.81	
5000.00	4856.89	19.47	138.18	4650.50	27.34	13.69	78.81	914.47	872.23	21.65	
5100.00	4954.82	19.47	138.18	4742.82	28.03	14.00	79.17	933.94	890.49	21.50	
5200.00	5052.74	19.47	138.18	4835.14	28.72	14.32	79.52	953.44	908.78	21.35	
5300.00	5150.66	19.47	138.18	4927.46	29.42	14.64	79.85	972.97	927.11	21.22	
5400.00	5248.58	19.47	138.18	5019.78	30.11	14.96	80.17	992.53	945.46	21.09	
5500.00	5346.50	19.47	138.18	5112.11	30.80	15.27	80.47	1012.12	963.84	20.97	
5600.00	5444.42	19.47	138.18	5204.43	31.49	15.59	80.77	1031.73	982.25	20.85	
5700.00	5542.34	19.47	138.18	5296.75	32.18	15.91	81.05	1051.38	1000.68	20.74	
5800.00	5640.27	19.47	138.18	5389.07	32.87	16.23	81.33	1071.04	1019.14	20.64	
5900.00	5738.19	19.47	138.18	5481.39	33.56	16.54	81.59	1090.73	1037.62	20.54	
6000.00	5836.11	19.47	138.18	5573.71	34.26	16.86	81.84	1110.44	1056.11	20.44	
6100.00	5934.03	19.47	138.18	5666.04	34.95	17.18	81.49	1130.16	1074.63	20.35	
6200.00	6032.11	19.47	138.18	5758.51	35.64	17.50	69.03	1148.89	1092.53	20.38	
6300.00	6129.02	19.47	138.18	5849.88	36.33	17.81	1.31	1165.89	1109.10	20.53	

5D Anti-Collision Report

Secondary Well: Goetzel 13C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
6400.00	6222.89	19.47	138.18	5938.38	36.99	18.12	304.03	1181.42	1124.58	20.79	
6500.00	6311.89	19.47	138.18	6022.28	37.62	18.41	291.64	1196.17	1139.72	21.19	
6600.00	6394.27	19.47	138.18	6099.96	38.20	18.67	286.30	1211.14	1155.53	21.78	
6700.00	6468.45	19.47	138.18	6169.90	38.72	18.92	283.09	1227.52	1173.20	22.60	
6800.00	6532.98	19.47	138.18	6230.73	39.18	19.13	281.04	1246.52	1193.72	23.61	
6900.00	6603.98	16.62	154.05	6298.28	39.46	19.33	279.36	1268.87	1217.50	24.70	
7000.00	6682.81	15.34	176.64	6374.13	39.35	19.45	277.92	1294.42	1244.41	25.88	
7100.00	6774.93	16.90	202.82	6462.74	38.78	19.46	276.42	1322.90	1273.82	26.96	
7200.00	6892.08	22.42	225.67	6573.18	37.42	19.23	274.43	1353.67	1305.21	27.93	
7300.00	7063.22	33.59	242.93	6724.28	34.48	18.33	271.07	1385.28	1336.68	28.51	
7400.00	7367.81	56.06	256.68	6939.45	29.33	14.33	265.03	1413.39	1362.82	27.95	
7500.00	7828.33	90.00	267.32	7067.00	29.90	11.97	260.38	1424.01	1365.85	24.49	
7600.00	7928.33	90.00	267.32	7067.00	30.92	12.48	260.38	1423.88	1363.56	23.60	
7700.00	8028.33	90.00	267.32	7067.00	32.13	13.02	260.38	1423.76	1360.84	22.63	
7800.00	8128.33	90.00	267.32	7067.00	33.53	13.60	260.38	1423.63	1357.71	21.60	
7900.00	8228.33	90.00	267.32	7067.00	35.09	14.20	260.38	1423.51	1354.27	20.56	
8000.00	8328.33	90.00	267.32	7067.00	36.80	14.82	260.37	1423.38	1350.62	19.56	
8100.00	8428.33	90.00	267.32	7067.00	38.63	15.46	260.37	1423.25	1346.71	18.59	
8200.00	8528.33	90.00	267.32	7067.00	40.57	16.11	260.37	1423.13	1342.61	17.67	
8300.00	8628.33	90.00	267.32	7067.00	42.60	16.77	260.37	1423.00	1338.44	16.83	
8400.00	8728.33	90.00	267.32	7067.00	44.72	17.44	260.37	1422.88	1333.92	15.99	
8500.00	8828.33	90.00	267.32	7067.00	46.91	18.11	260.37	1422.75	1329.39	15.24	
8600.00	8928.33	90.00	267.32	7067.00	49.16	18.79	260.37	1422.63	1324.78	14.54	
8700.00	9028.33	90.00	267.32	7067.00	51.47	19.47	260.37	1422.50	1320.07	13.89	
8800.00	9128.33	90.00	267.32	7067.00	53.82	20.16	260.37	1422.37	1315.26	13.28	
8900.00	9228.33	90.00	267.32	7067.00	56.22	20.84	260.37	1422.25	1310.38	12.71	
9000.00	9328.33	90.00	267.32	7067.00	58.65	21.53	260.37	1422.12	1305.41	12.18	
9100.00	9428.33	90.00	267.32	7067.00	61.11	22.23	260.37	1422.00	1300.36	11.69	
9200.00	9528.33	90.00	267.32	7067.00	63.60	22.92	260.36	1421.87	1295.25	11.23	
9300.00	9628.33	90.00	267.32	7067.00	66.11	23.62	260.36	1421.75	1290.10	10.80	
9400.00	9728.33	90.00	267.32	7067.00	68.65	24.32	260.36	1421.62	1284.91	10.40	
9500.00	9828.33	90.00	267.32	7067.00	71.21	25.02	260.36	1421.49	1279.68	10.02	
9600.00	9928.33	90.00	267.32	7067.00	73.78	25.72	260.36	1421.37	1274.43	9.67	
9700.00	10028.33	90.00	267.32	7067.00	76.38	26.42	260.36	1421.24	1269.14	9.34	
9800.00	10128.33	90.00	267.32	7067.00	78.98	27.12	260.36	1421.12	1263.83	9.04	
9900.00	10228.33	90.00	267.32	7067.00	81.60	27.83	260.36	1420.99	1258.49	8.74	
10000.00	10328.33	90.00	267.32	7067.00	84.23	28.53	260.36	1420.86	1253.14	8.47	
10100.00	10428.33	90.00	267.32	7067.00	86.87	29.24	260.36	1420.74	1247.77	8.21	
10200.00	10528.33	90.00	267.32	7067.00	89.53	29.95	260.36	1420.61	1242.38	7.97	
10300.00	10628.33	90.00	267.32	7067.00	92.19	30.66	260.35	1420.49	1236.97	7.74	
10400.00	10728.33	90.00	267.32	7067.00	94.85	31.37	260.35	1420.36	1231.55	7.52	
10500.00	10828.33	90.00	267.32	7067.00	97.53	32.08	260.35	1420.24	1226.12	7.32	
10600.00	10928.33	90.00	267.32	7067.00	100.21	32.79	260.35	1420.11	1220.67	7.12	
10700.00	11028.33	90.00	267.32	7067.00	102.90	33.50	260.35	1419.98	1215.22	6.93	
10800.00	11128.33	90.00	267.32	7067.00	105.60	34.22	260.35	1419.86	1209.75	6.76	
10900.00	11228.33	90.00	267.32	7067.00	108.30	34.93	260.35	1419.73	1204.28	6.59	
11000.00	11328.33	90.00	267.32	7067.00	111.00	35.65	260.35	1419.61	1198.80	6.43	
11100.00	11428.33	90.00	267.32	7067.00	113.71	36.36	260.35	1419.48	1193.30	6.28	
11200.00	11528.33	90.00	267.32	7067.00	116.43	37.08	260.35	1419.35	1187.81	6.13	
11300.00	11628.33	90.00	267.32	7067.00	119.15	37.80	260.35	1419.23	1182.30	5.99	
11400.00	11728.33	90.00	267.32	7067.00	121.87	38.51	260.35	1419.10	1176.79	5.86	
11500.00	11828.33	90.00	267.32	7067.00	124.59	39.23	260.34	1418.98	1171.27	5.73	
11600.00	11928.33	90.00	267.32	7067.00	127.32	39.95	260.34	1418.85	1165.75	5.61	
11700.00	12028.33	90.00	267.32	7067.00	130.05	40.67	260.34	1418.73	1160.22	5.49	
11800.00	12128.33	90.00	267.32	7067.00	132.79	41.39	260.34	1418.60	1154.69	5.38	
11900.00	12228.33	90.00	267.32	7067.00	135.53	42.11	260.34	1418.47	1149.15	5.27	
12000.00	12328.33	90.00	267.32	7067.00	138.27	42.83	260.34	1418.35	1143.60	5.16	
12100.00	12428.33	90.00	267.32	7067.00	141.01	43.55	260.34	1418.22	1138.06	5.06	

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
12200.00	12528.33	90.00	267.32	7067.00	143.76	44.27	260.34	1418.10	1132.51	4.97	
12300.00	12628.33	90.00	267.32	7067.00	146.50	44.99	260.34	1417.97	1126.95	4.87	
12400.00	12728.33	90.00	267.32	7067.00	149.25	45.71	260.34	1417.85	1121.39	4.78	
12500.00	12828.33	90.00	267.32	7067.00	152.00	46.43	260.34	1417.72	1115.83	4.70	
12600.00	12928.33	90.00	267.32	7067.00	154.76	47.15	260.33	1417.59	1110.27	4.61	
12700.00	13028.33	90.00	267.32	7067.00	157.51	47.88	260.33	1417.47	1104.70	4.53	
12800.00	13128.33	90.00	267.32	7067.00	160.27	48.60	260.33	1417.34	1099.13	4.45	
12900.00	13228.33	90.00	267.32	7067.00	163.02	49.32	260.33	1417.22	1093.56	4.38	
13000.00	13328.33	90.00	267.32	7067.00	165.78	50.04	260.33	1417.09	1087.99	4.31	
13100.00	13428.33	90.00	267.32	7067.00	168.54	50.77	260.33	1416.96	1082.41	4.24	
13200.00	13528.33	90.00	267.32	7067.00	171.31	51.49	260.33	1416.84	1076.83	4.17	
13300.00	13628.33	90.00	267.32	7067.00	174.07	52.22	260.33	1416.71	1071.25	4.10	
13400.00	13728.33	90.00	267.32	7067.00	176.83	52.94	260.33	1416.59	1065.66	4.04	
13500.00	13828.33	90.00	267.32	7067.00	179.60	53.66	260.33	1416.46	1060.08	3.97	
13600.00	13928.33	90.00	267.32	7067.00	182.36	54.39	260.33	1416.34	1054.49	3.91	
13700.00	14028.33	90.00	267.32	7067.00	185.13	55.11	260.33	1416.21	1048.90	3.86	
13800.00	14128.33	90.00	267.32	7067.00	187.90	55.84	260.32	1416.08	1043.31	3.80	
13900.00	14228.33	90.00	267.32	7067.00	190.67	56.57	260.32	1415.96	1037.72	3.74	
14000.00	14328.33	90.00	267.32	7067.00	193.44	57.29	260.32	1415.83	1032.12	3.69	
14100.00	14428.33	90.00	267.32	7067.00	196.21	58.02	260.32	1415.71	1026.52	3.64	
14200.00	14528.33	90.00	267.32	7067.00	198.98	58.74	260.32	1415.58	1020.93	3.59	
14300.00	14628.33	90.00	267.32	7067.00	201.76	59.47	260.32	1415.46	1015.33	3.54	
14400.00	14728.33	90.00	267.32	7067.00	204.53	60.19	260.32	1415.33	1009.73	3.49	
14500.00	14828.33	90.00	267.32	7067.00	207.30	60.92	260.32	1415.20	1004.13	3.44	
14600.00	14928.33	90.00	267.32	7067.00	210.08	61.65	260.32	1415.08	998.52	3.40	
14700.00	15028.33	90.00	267.32	7067.00	212.86	62.37	260.32	1414.95	992.92	3.35	
14800.00	15128.33	90.00	267.32	7067.00	215.63	63.10	260.32	1414.83	987.32	3.31	
14900.00	15228.33	90.00	267.32	7067.00	218.41	63.83	260.31	1414.70	981.71	3.27	
15000.00	15328.33	90.00	267.32	7067.00	221.19	64.56	260.31	1414.57	976.10	3.23	
15100.00	15428.33	90.00	267.32	7067.00	223.97	65.28	260.31	1414.45	970.50	3.19	
15200.00	15528.33	90.00	267.32	7067.00	226.74	66.01	260.31	1414.32	964.89	3.15	
15300.00	15628.33	90.00	267.32	7067.00	229.52	66.74	260.31	1414.20	959.28	3.11	
15322.07	15650.40	90.00	267.32	7067.00	230.14	66.90	260.31	1414.17	958.04	3.10	
Secondary Well: Goetzel 34N-30C-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	0.00	0.00	0.00	180.01	140.26	139.53	191.27	
100.00	100.00	0.00	0.00	100.00	0.11	0.11	180.01	140.26	139.31	147.03	
200.00	200.00	0.00	0.00	200.00	0.34	0.34	180.01	140.26	138.86	99.94	
300.00	300.00	0.00	0.00	300.00	0.56	0.56	180.01	140.26	138.41	75.69	
400.00	400.00	0.00	0.00	400.00	0.79	0.79	180.01	140.26	137.96	60.91	
500.00	498.16	0.96	141.02	498.16	1.00	1.00	179.90	140.59	137.85	51.38	
600.00	594.38	2.89	141.02	594.32	1.18	1.17	179.09	143.22	140.08	45.61	
700.00	690.27	4.81	141.02	689.99	1.38	1.37	177.56	148.56	145.00	41.73	
800.00	785.62	6.71	141.02	784.86	1.60	1.56	175.46	156.75	152.75	39.24	
900.00	880.24	8.60	141.02	878.62	1.87	1.77	173.01	167.93	163.49	37.83	
1000.00	973.92	10.48	141.02	971.00	2.17	1.97	170.39	182.25	177.35	37.21	
1100.00	1066.47	12.33	141.02	1061.73	2.51	2.19	167.77	199.78	194.43	37.34	
1200.00	1157.74	14.15	141.02	1150.57	2.90	2.41	165.26	220.57	214.77	38.05	
1300.00	1247.57	15.95	141.02	1237.31	3.34	2.63	162.94	244.59	238.34	39.13	
1400.00	1335.82	17.72	141.02	1321.77	3.82	2.86	160.84	271.81	265.10	40.53	
1500.00	1422.46	19.45	141.02	1403.89	4.35	3.09	57.84	301.91	294.77	42.32	
1600.00	1512.02	20.44	141.02	1487.96	4.94	3.34	56.07	333.17	325.59	43.98	
1700.00	1607.35	20.44	141.02	1577.29	5.59	3.62	54.92	363.13	355.08	45.10	
1800.00	1703.33	20.44	141.02	1667.22	6.27	3.92	54.35	391.19	382.60	45.53	
1900.00	1799.83	20.44	141.02	1757.64	6.95	4.21	54.22	417.29	408.16	45.67	
2000.00	1896.74	20.44	141.02	1848.45	7.64	4.52	54.48	441.46	431.74	45.41	

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
2100.00	1993.95	20.44	141.02	1939.53	8.33	4.82	55.06	463.74	453.36	44.71	
2200.00	2091.32	20.44	141.02	2030.77	9.04	5.13	55.93	484.23	473.14	43.67	
2300.00	2188.75	20.44	141.02	2122.07	9.74	5.44	57.07	503.06	491.16	42.28	
2400.00	2286.17	20.44	141.02	2213.35	10.45	5.76	58.55	521.39	508.63	40.85	
2500.00	2383.59	20.44	141.02	2304.64	11.15	6.07	59.94	540.04	526.34	39.40	
2600.00	2481.02	20.44	141.02	2395.92	11.86	6.39	61.23	558.98	544.29	38.04	
2700.00	2578.44	20.44	141.02	2487.21	12.57	6.70	62.44	578.18	562.48	36.82	
2800.00	2675.86	20.44	141.02	2578.49	13.29	7.02	63.57	597.62	580.89	35.73	
2900.00	2773.28	20.44	141.02	2669.78	14.00	7.34	64.63	617.27	599.50	34.75	
3000.00	2870.70	20.44	141.02	2761.06	14.71	7.66	65.62	637.11	618.29	33.86	
3100.00	2968.12	20.44	141.02	2852.35	15.42	7.98	66.56	657.12	637.22	33.01	
3200.00	3065.54	20.44	141.02	2943.63	16.14	8.30	67.44	677.30	656.29	32.23	
3300.00	3162.97	20.44	141.02	3034.92	16.85	8.62	68.27	697.62	675.49	31.52	
3400.00	3260.39	20.44	141.02	3126.20	17.57	8.94	69.05	718.08	694.81	30.85	
3500.00	3357.81	20.44	141.02	3217.49	18.28	9.26	69.79	738.66	714.24	30.25	
3600.00	3455.23	20.44	141.02	3308.77	19.00	9.58	70.49	759.35	733.78	29.69	
3700.00	3552.65	20.44	141.02	3400.06	19.72	9.91	71.16	780.15	753.42	29.19	
3800.00	3650.07	20.44	141.02	3491.34	20.43	10.23	71.79	801.04	773.15	28.73	
3900.00	3747.49	20.44	141.02	3582.63	21.15	10.55	72.38	822.02	792.97	28.30	
4000.00	3844.92	20.44	141.02	3673.91	21.86	10.87	72.95	843.08	812.87	27.90	
4100.00	3942.34	20.44	141.02	3765.20	22.58	11.20	73.49	864.22	832.83	27.54	
4200.00	4039.76	20.44	141.02	3856.48	23.30	11.52	74.01	885.43	852.85	27.18	
4300.00	4137.18	20.44	141.02	3947.77	24.02	11.84	74.50	906.70	872.92	26.84	
4400.00	4234.60	20.44	141.02	4039.05	24.73	12.17	74.96	928.03	893.05	26.53	
4500.00	4332.02	20.44	141.02	4130.34	25.45	12.49	75.41	949.42	913.23	26.23	
4600.00	4429.44	20.44	141.02	4221.63	26.17	12.81	75.84	970.87	933.47	25.96	
4700.00	4526.87	20.44	141.02	4312.91	26.89	13.14	76.25	992.36	953.75	25.70	
4800.00	4624.29	20.44	141.02	4404.20	27.60	13.46	76.64	1013.90	974.09	25.47	
4900.00	4721.71	20.44	141.02	4495.48	28.32	13.78	77.02	1035.48	994.46	25.24	
5000.00	4819.13	20.44	141.02	4586.77	29.04	14.11	77.38	1057.11	1014.88	25.03	
5100.00	4916.55	20.44	141.02	4678.05	29.76	14.43	77.72	1078.77	1035.33	24.83	
5200.00	5013.97	20.44	141.02	4769.34	30.47	14.76	78.05	1100.47	1055.82	24.65	
5300.00	5111.39	20.44	141.02	4860.62	31.19	15.08	78.37	1122.20	1076.34	24.47	
5400.00	5208.82	20.44	141.02	4951.91	31.91	15.41	78.68	1143.97	1096.90	24.30	
5500.00	5306.24	20.44	141.02	5043.19	32.63	15.73	78.98	1165.76	1117.48	24.14	
5600.00	5403.66	20.44	141.02	5134.48	33.35	16.05	79.26	1187.59	1138.09	23.99	
5700.00	5501.08	20.44	141.02	5225.76	34.07	16.38	79.54	1209.44	1158.73	23.85	
5800.00	5598.50	20.44	141.02	5317.05	34.78	16.70	79.80	1231.31	1179.40	23.72	
5900.00	5695.92	20.44	141.02	5408.33	35.50	17.03	80.06	1253.22	1200.09	23.59	
6000.00	5793.34	20.44	141.02	5499.62	36.22	17.35	80.31	1275.14	1220.80	23.47	
6100.00	5890.77	20.44	141.02	5590.91	36.94	17.68	79.97	1297.08	1241.54	23.36	
6200.00	5988.37	20.44	141.02	5682.36	37.66	18.00	67.76	1318.24	1261.87	23.38	
6300.00	6084.85	20.44	141.02	5772.76	38.37	18.33	0.40	1337.96	1281.15	23.55	
6400.00	6178.33	20.44	141.02	5860.35	39.06	18.64	303.56	1356.35	1299.52	23.87	
6500.00	6267.00	20.44	141.02	5943.44	39.71	18.93	291.64	1373.90	1317.46	24.34	
6600.00	6349.13	20.44	141.02	6020.39	40.32	19.21	286.79	1391.40	1335.78	25.02	
6700.00	6423.12	20.44	141.02	6089.72	40.87	19.45	284.05	1409.78	1355.30	25.88	
6800.00	6490.56	19.34	146.24	6153.01	41.32	19.68	282.31	1430.00	1376.86	26.91	
6900.00	6563.67	17.22	163.70	6222.47	41.42	19.86	280.98	1452.43	1400.63	28.04	
7000.00	6644.81	16.97	185.89	6300.11	41.12	19.96	279.82	1476.92	1426.22	29.13	
7100.00	6739.25	19.53	208.79	6389.91	40.26	19.95	278.59	1503.20	1453.25	30.09	
7200.00	6857.57	25.58	228.00	6499.28	38.49	19.71	276.93	1530.71	1481.16	30.89	
7300.00	7023.40	36.47	242.95	6641.38	35.09	18.82	274.24	1558.18	1508.31	31.24	
7400.00	7292.55	56.12	255.35	6826.81	29.78	15.17	269.76	1582.39	1530.63	30.57	
7500.00	7739.71	90.00	267.03	6955.00	29.88	11.98	265.47	1593.88	1534.91	27.03	
7600.00	7839.71	90.00	267.03	6955.00	30.89	12.50	265.47	1594.24	1533.03	26.04	
7700.00	7939.71	90.00	267.03	6955.00	32.07	13.06	265.47	1594.61	1530.81	24.99	
7800.00	8039.71	90.00	267.03	6955.00	33.44	13.66	265.47	1594.98	1528.22	23.89	

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
7900.00	8139.70	90.00	267.03	6955.00	34.97	14.28	265.47	1595.34	1525.29	22.77	
8000.00	8239.70	90.00	267.03	6955.00	36.65	14.92	265.47	1595.71	1522.11	21.68	
8100.00	8339.70	90.00	267.03	6955.00	38.45	15.58	265.47	1596.07	1518.67	20.62	
8200.00	8439.70	90.00	267.03	6955.00	40.37	16.25	265.47	1596.44	1515.14	19.64	
8300.00	8539.70	90.00	267.03	6955.00	42.38	16.92	265.47	1596.80	1511.25	18.66	
8400.00	8639.70	90.00	267.03	6955.00	44.48	17.61	265.48	1597.17	1507.29	17.77	
8500.00	8739.70	90.00	267.03	6955.00	46.66	18.30	265.48	1597.54	1503.17	16.93	
8600.00	8839.70	90.00	267.03	6955.00	48.89	18.99	265.48	1597.90	1499.01	16.16	
8700.00	8939.70	90.00	267.03	6955.00	51.18	19.69	265.48	1598.27	1494.73	15.44	
8800.00	9039.70	90.00	267.03	6955.00	53.52	20.38	265.48	1598.63	1490.36	14.76	
8900.00	9139.70	90.00	267.03	6955.00	55.91	21.08	265.48	1599.00	1485.89	14.14	
9000.00	9239.70	90.00	267.03	6955.00	58.33	21.79	265.48	1599.36	1481.34	13.55	
9100.00	9339.70	90.00	267.03	6955.00	60.78	22.49	265.48	1599.73	1476.74	13.01	
9200.00	9439.70	90.00	267.03	6955.00	63.26	23.19	265.48	1600.10	1472.07	12.50	
9300.00	9539.70	90.00	267.03	6955.00	65.77	23.90	265.48	1600.46	1467.36	12.02	
9400.00	9639.69	90.00	267.03	6955.00	68.30	24.60	265.49	1600.83	1462.61	11.58	
9500.00	9739.69	90.00	267.03	6955.00	70.85	25.31	265.49	1601.19	1457.82	11.17	
9600.00	9839.69	90.00	267.03	6955.00	73.42	26.02	265.49	1601.56	1453.00	10.78	
9700.00	9939.69	90.00	267.03	6955.00	76.01	26.72	265.49	1601.92	1448.15	10.42	
9800.00	10039.69	90.00	267.03	6955.00	78.61	27.43	265.49	1602.29	1443.28	10.08	
9900.00	10139.69	90.00	267.03	6955.00	81.22	28.14	265.49	1602.65	1438.38	9.76	
10000.00	10239.69	90.00	267.03	6955.00	83.85	28.85	265.49	1603.02	1433.46	9.45	
10100.00	10339.69	90.00	267.03	6955.00	86.48	29.56	265.49	1603.39	1428.52	9.17	
10200.00	10439.69	90.00	267.03	6955.00	89.13	30.28	265.49	1603.75	1423.57	8.90	
10300.00	10539.69	90.00	267.03	6955.00	91.79	30.99	265.49	1604.12	1418.60	8.65	
10400.00	10639.69	90.00	267.03	6955.00	94.45	31.70	265.50	1604.48	1413.61	8.41	
10500.00	10739.69	90.00	267.03	6955.00	97.12	32.42	265.50	1604.85	1408.62	8.18	
10600.00	10839.69	90.00	267.03	6955.00	99.80	33.13	265.50	1605.21	1403.61	7.96	
10700.00	10939.69	90.00	267.03	6955.00	102.49	33.85	265.50	1605.58	1398.59	7.76	
10800.00	11039.69	90.00	267.03	6955.00	105.18	34.56	265.50	1605.95	1393.56	7.56	
10900.00	11139.68	90.00	267.03	6955.00	107.88	35.28	265.50	1606.31	1388.52	7.38	
11000.00	11239.68	90.00	267.03	6955.00	110.58	36.00	265.50	1606.68	1383.47	7.20	
11100.00	11339.68	90.00	267.03	6955.00	113.29	36.72	265.50	1607.04	1378.41	7.03	
11200.00	11439.68	90.00	267.03	6955.00	116.00	37.43	265.50	1607.41	1373.35	6.87	
11300.00	11539.68	90.00	267.03	6955.00	118.72	38.15	265.51	1607.77	1368.27	6.71	
11400.00	11639.68	90.00	267.03	6955.00	121.44	38.87	265.51	1608.14	1363.20	6.57	
11500.00	11739.68	90.00	267.03	6955.00	124.16	39.59	265.51	1608.51	1358.11	6.42	
11600.00	11839.68	90.00	267.03	6955.00	126.89	40.31	265.51	1608.87	1353.02	6.29	
11700.00	11939.68	90.00	267.03	6955.00	129.62	41.03	265.51	1609.24	1347.93	6.16	
11800.00	12039.68	90.00	267.03	6955.00	132.35	41.75	265.51	1609.60	1342.83	6.03	
11900.00	12139.68	90.00	267.03	6955.00	135.09	42.47	265.51	1609.97	1337.72	5.91	
12000.00	12239.68	90.00	267.03	6955.00	137.82	43.19	265.51	1610.33	1332.61	5.80	
12100.00	12339.68	90.00	267.03	6955.00	140.56	43.92	265.51	1610.70	1327.50	5.69	
12200.00	12439.68	90.00	267.03	6955.00	143.31	44.64	265.51	1611.07	1322.38	5.58	
12300.00	12539.68	90.00	267.03	6955.00	146.05	45.36	265.52	1611.43	1317.26	5.48	
12400.00	12639.67	90.00	267.03	6955.00	148.80	46.08	265.52	1611.80	1312.13	5.38	
12500.00	12739.67	90.00	267.03	6955.00	151.55	46.81	265.52	1612.16	1307.00	5.28	
12600.00	12839.67	90.00	267.03	6955.00	154.30	47.53	265.52	1612.53	1301.87	5.19	
12700.00	12939.67	90.00	267.03	6955.00	157.05	48.25	265.52	1612.89	1296.74	5.10	
12800.00	13039.67	90.00	267.03	6955.00	159.81	48.98	265.52	1613.26	1291.60	5.02	
12900.00	13139.67	90.00	267.03	6955.00	162.56	49.70	265.52	1613.62	1286.46	4.93	
13000.00	13239.67	90.00	267.03	6955.00	165.32	50.42	265.52	1613.99	1281.32	4.85	
13100.00	13339.67	90.00	267.03	6955.00	168.08	51.15	265.52	1614.36	1276.17	4.77	
13200.00	13439.67	90.00	267.03	6955.00	170.84	51.87	265.52	1614.72	1271.02	4.70	
13300.00	13539.67	90.00	267.03	6955.00	173.60	52.60	265.53	1615.09	1265.87	4.62	
13400.00	13639.67	90.00	267.03	6955.00	176.36	53.32	265.53	1615.45	1260.72	4.55	
13500.00	13739.67	90.00	267.03	6955.00	179.13	54.05	265.53	1615.82	1255.56	4.49	
13600.00	13839.67	90.00	267.03	6955.00	181.89	54.77	265.53	1616.18	1250.41	4.42	

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
13700.00	13939.67	90.00	267.03	6955.00	184.66	55.50	265.53	1616.55	1245.25	4.35	
13800.00	14039.67	90.00	267.03	6955.00	187.42	56.22	265.53	1616.92	1240.09	4.29	
13900.00	14139.66	90.00	267.03	6955.00	190.19	56.95	265.53	1617.28	1234.93	4.23	
14000.00	14239.66	90.00	267.03	6955.00	192.96	57.68	265.53	1617.65	1229.76	4.17	
14100.00	14339.66	90.00	267.03	6955.00	195.73	58.40	265.53	1618.01	1224.60	4.11	
14200.00	14439.66	90.00	267.03	6955.00	198.50	59.13	265.53	1618.38	1219.43	4.06	
14300.00	14539.66	90.00	267.03	6955.00	201.27	59.86	265.54	1618.74	1214.27	4.00	
14400.00	14639.66	90.00	267.03	6955.00	204.04	60.58	265.54	1619.11	1209.10	3.95	
14500.00	14739.66	90.00	267.03	6955.00	206.82	61.31	265.54	1619.48	1203.93	3.90	
14600.00	14839.66	90.00	267.03	6955.00	209.59	62.04	265.54	1619.84	1198.75	3.85	
14700.00	14939.66	90.00	267.03	6955.00	212.36	62.76	265.54	1620.21	1193.58	3.80	
14800.00	15039.66	90.00	267.03	6955.00	215.14	63.49	265.54	1620.57	1188.41	3.75	
14900.00	15139.66	90.00	267.03	6955.00	217.91	64.22	265.54	1620.94	1183.23	3.70	
15000.00	15239.66	90.00	267.03	6955.00	220.69	64.95	265.54	1621.30	1178.05	3.66	
15100.00	15339.66	90.00	267.03	6955.00	223.47	65.67	265.54	1621.67	1172.88	3.61	
15200.00	15439.66	90.00	267.03	6955.00	226.24	66.40	265.54	1622.04	1167.70	3.57	
15300.00	15539.65	90.00	267.03	6955.00	229.02	67.13	265.55	1622.40	1162.52	3.53	
15322.07	15561.73	90.00	267.03	6955.00	229.63	67.29	265.55	1622.48	1161.37	3.52	

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	180.05	160.30	159.57	218.59	
100.00	100.00	0.00	0.00	100.00	0.11	0.11	180.05	160.30	159.34	168.04	
200.00	200.00	0.00	0.00	200.00	0.34	0.34	180.05	160.30	158.90	114.21	
300.00	300.00	0.00	0.00	300.00	0.56	0.56	180.05	160.30	158.45	86.50	
400.00	395.63	1.91	144.12	395.61	0.76	0.75	179.72	161.65	159.38	71.22	
500.00	491.05	3.82	144.12	490.91	0.95	0.94	178.75	165.75	163.06	61.58	
600.00	586.04	5.72	144.12	585.57	1.17	1.14	177.26	172.66	169.54	55.28	
700.00	680.41	7.61	144.12	679.29	1.42	1.35	175.37	182.50	178.94	51.16	
800.00	773.96	9.48	144.12	771.80	1.71	1.56	173.23	195.39	191.36	48.54	
900.00	866.49	11.33	144.12	862.81	2.05	1.77	170.99	211.40	206.91	47.11	
1000.00	957.85	13.16	144.12	952.08	2.43	1.99	168.76	230.58	225.63	46.60	
1100.00	1047.86	14.96	144.12	1039.39	2.86	2.22	166.64	252.96	247.55	46.76	
1200.00	1136.39	16.73	144.12	1124.56	3.32	2.45	164.66	278.49	272.62	47.45	
1300.00	1223.30	18.47	144.12	1207.40	3.84	2.69	162.85	307.11	300.79	48.56	
1400.00	1308.49	20.17	144.12	1287.79	4.38	2.92	161.23	338.76	331.97	49.91	
1500.00	1397.99	20.88	144.12	1371.49	5.01	3.19	158.54	372.68	365.43	51.41	
1600.00	1492.26	20.88	144.12	1459.57	5.68	3.48	157.04	405.49	397.77	52.51	
1700.00	1587.28	20.88	144.12	1548.34	6.37	3.78	156.12	436.56	428.32	53.00	
1800.00	1682.91	20.88	144.12	1637.69	7.06	4.09	155.66	465.77	457.00	53.11	
1900.00	1779.04	20.88	144.12	1727.51	7.76	4.39	155.59	493.11	483.79	52.90	
2000.00	1875.56	20.88	144.12	1817.69	8.47	4.71	155.83	518.59	508.68	52.33	
2100.00	1972.35	20.88	144.12	1908.12	9.19	5.02	156.35	542.27	531.71	51.33	
2200.00	2069.28	20.88	144.12	1998.69	9.90	5.34	157.13	564.24	552.95	49.95	
2300.00	2166.25	20.88	144.12	2089.29	10.62	5.66	158.15	584.63	572.53	48.30	
2400.00	2263.20	20.88	144.12	2179.87	11.34	5.98	159.54	604.55	591.57	46.55	
2500.00	2360.16	20.88	144.12	2270.46	12.06	6.30	160.84	624.80	610.89	44.91	
2600.00	2457.11	20.88	144.12	2361.04	12.78	6.62	162.06	645.34	630.45	43.32	
2700.00	2554.06	20.88	144.12	2451.62	13.50	6.94	163.21	666.16	650.25	41.88	
2800.00	2651.01	20.88	144.12	2542.20	14.23	7.26	164.29	687.21	670.28	40.59	
2900.00	2747.96	20.88	144.12	2632.79	14.95	7.58	165.30	708.49	690.52	39.43	
3000.00	2844.91	20.88	144.12	2723.37	15.67	7.91	166.26	729.96	710.95	38.38	
3100.00	2941.86	20.88	144.12	2813.95	16.40	8.23	167.16	751.63	731.55	37.44	
3200.00	3038.81	20.88	144.12	2904.53	17.12	8.56	168.01	773.46	752.30	36.55	
3300.00	3135.76	20.88	144.12	2995.12	17.84	8.88	168.81	795.45	773.16	35.68	
3400.00	3232.71	20.88	144.12	3085.70	18.57	9.20	169.58	817.59	794.15	34.89	
3500.00	3329.66	20.88	144.12	3176.28	19.29	9.53	170.30	839.85	815.27	34.17	

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
3600.00	3426.61	20.88	144.12	3266.86	20.02	9.85	70.98	862.24	836.51	33.52	
3700.00	3523.56	20.88	144.12	3357.45	20.74	10.18	71.63	884.73	857.85	32.91	
3800.00	3620.51	20.88	144.12	3448.03	21.47	10.50	72.25	907.34	879.30	32.36	
3900.00	3717.47	20.88	144.12	3538.61	22.19	10.83	72.84	930.04	900.84	31.85	
4000.00	3814.42	20.88	144.12	3629.20	22.92	11.16	73.40	952.82	922.47	31.39	
4100.00	3911.37	20.88	144.12	3719.78	23.64	11.48	73.94	975.70	944.17	30.95	
4200.00	4008.32	20.88	144.12	3810.36	24.37	11.81	74.45	998.65	965.96	30.55	
4300.00	4105.27	20.88	144.12	3900.94	25.10	12.13	74.94	1021.67	987.81	30.17	
4400.00	4202.22	20.88	144.12	3991.53	25.82	12.46	75.40	1044.76	1009.72	29.82	
4500.00	4299.17	20.88	144.12	4082.11	26.55	12.79	75.85	1067.91	1031.69	29.49	
4600.00	4396.12	20.88	144.12	4172.69	27.27	13.11	76.28	1091.12	1053.70	29.16	
4700.00	4493.07	20.88	144.12	4263.27	28.00	13.44	76.69	1114.39	1075.77	28.86	
4800.00	4590.02	20.88	144.12	4353.86	28.73	13.77	77.08	1137.71	1097.88	28.57	
4900.00	4686.97	20.88	144.12	4444.44	29.45	14.09	77.46	1161.07	1120.04	28.30	
5000.00	4783.92	20.88	144.12	4535.02	30.18	14.42	77.82	1184.49	1142.25	28.05	
5100.00	4880.87	20.88	144.12	4625.60	30.90	14.75	78.17	1207.94	1164.51	27.81	
5200.00	4977.83	20.88	144.12	4716.19	31.63	15.07	78.50	1231.44	1186.80	27.58	
5300.00	5074.78	20.88	144.12	4806.77	32.36	15.40	78.83	1254.98	1209.13	27.37	
5400.00	5171.73	20.88	144.12	4897.35	33.08	15.73	79.14	1278.55	1231.49	27.17	
5500.00	5268.68	20.88	144.12	4987.94	33.81	16.05	79.44	1302.16	1253.90	26.98	
5600.00	5365.63	20.88	144.12	5078.52	34.54	16.38	79.73	1325.80	1276.33	26.80	
5700.00	5462.58	20.88	144.12	5169.10	35.26	16.71	80.01	1349.47	1298.79	26.63	
5800.00	5559.53	20.88	144.12	5259.68	35.99	17.04	80.28	1373.17	1321.29	26.47	
5900.00	5656.48	20.88	144.12	5350.27	36.72	17.36	80.54	1396.90	1343.81	26.31	
6000.00	5753.43	20.88	144.12	5440.85	37.44	17.69	80.79	1420.65	1366.35	26.16	
6100.00	5850.39	20.88	144.12	5531.44	38.17	18.02	80.48	1444.43	1388.93	26.03	
6200.00	5947.61	20.88	144.12	5622.27	38.90	18.35	68.46	1467.35	1411.02	26.05	
6300.00	6043.87	20.88	144.12	5712.21	39.62	18.67	1.33	1488.64	1431.86	26.22	
6400.00	6137.29	20.88	144.12	5799.50	40.32	18.99	304.73	1508.33	1451.50	26.54	
6500.00	6226.07	20.88	144.12	5882.44	40.99	19.29	293.06	1526.78	1470.29	27.03	
6600.00	6308.46	20.88	144.12	5959.42	41.60	19.56	288.44	1544.64	1488.89	27.71	
6700.00	6382.87	20.88	144.12	6028.95	42.16	19.82	285.86	1562.70	1507.89	28.51	
6800.00	6447.85	20.88	144.12	6089.66	42.65	20.04	284.30	1581.83	1528.25	29.52	
6900.00	6502.14	20.88	144.12	6140.38	43.06	20.22	283.52	1602.86	1550.73	30.75	
7000.00	6544.67	20.88	144.12	6180.12	43.38	20.36	283.49	1626.41	1575.56	31.99	
7100.00	6574.62	20.88	144.12	6208.10	43.60	20.46	284.26	1652.87	1603.24	33.30	
7200.00	6591.41	20.88	144.12	6223.78	43.73	20.52	285.84	1682.29	1633.69	34.61	
7300.00	6594.70	20.88	144.12	6226.86	43.75	20.53	288.22	1714.34	1666.47	35.82	
7400.00	6584.44	20.88	144.12	6217.28	43.67	20.50	291.31	1748.35	1700.88	36.84	
7500.00	6565.20	20.88	144.12	6199.29	43.53	20.43	292.49	1784.73	1737.43	37.73	
7600.00	7969.23	90.00	266.98	7060.00	31.24	12.69	262.69	1815.14	1754.40	29.88	
7700.00	8069.23	90.00	266.98	7060.00	32.38	13.25	262.69	1815.61	1752.30	28.68	
7800.00	8169.22	90.00	266.98	7060.00	33.70	13.85	262.69	1816.07	1749.82	27.41	
7900.00	8269.22	90.00	266.98	7060.00	35.18	14.49	262.69	1816.54	1747.05	26.14	
8000.00	8369.22	90.00	266.98	7060.00	36.81	15.14	262.70	1817.00	1744.01	24.89	
8100.00	8469.22	90.00	266.98	7060.00	38.58	15.81	262.70	1817.47	1740.73	23.68	
8200.00	8569.22	90.00	266.98	7060.00	40.45	16.50	262.70	1817.93	1737.35	22.56	
8300.00	8669.22	90.00	266.98	7060.00	42.43	17.19	262.70	1818.40	1733.62	21.45	
8400.00	8769.22	90.00	266.98	7060.00	44.49	17.89	262.70	1818.87	1729.88	20.44	
8500.00	8869.22	90.00	266.98	7060.00	46.63	18.59	262.71	1819.33	1725.91	19.47	
8600.00	8969.22	90.00	266.98	7060.00	48.84	19.30	262.71	1819.80	1721.84	18.58	
8700.00	9069.21	90.00	266.98	7060.00	51.10	20.00	262.71	1820.26	1717.65	17.74	
8800.00	9169.21	90.00	266.98	7060.00	53.42	20.71	262.71	1820.73	1713.40	16.96	
8900.00	9269.21	90.00	266.98	7060.00	55.78	21.42	262.71	1821.19	1709.08	16.24	
9000.00	9369.21	90.00	266.98	7060.00	58.18	22.13	262.71	1821.66	1704.68	15.57	
9100.00	9469.21	90.00	266.98	7060.00	60.62	22.84	262.72	1822.13	1700.22	14.95	
9200.00	9569.21	90.00	266.98	7060.00	63.08	23.55	262.72	1822.59	1695.71	14.36	
9300.00	9669.21	90.00	266.98	7060.00	65.57	24.26	262.72	1823.06	1691.15	13.82	

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
9400.00	9769.21	90.00	266.98	7060.00	68.09	24.97	262.72	1823.52	1686.56	13.31	
9500.00	9869.21	90.00	266.98	7060.00	70.63	25.69	262.72	1823.99	1681.93	12.84	
9600.00	9969.20	90.00	266.98	7060.00	73.19	26.40	262.73	1824.45	1677.28	12.40	
9700.00	10069.20	90.00	266.98	7060.00	75.76	27.11	262.73	1824.92	1672.59	11.98	
9800.00	10169.20	90.00	266.98	7060.00	78.35	27.82	262.73	1825.38	1667.88	11.59	
9900.00	10269.20	90.00	266.98	7060.00	80.96	28.54	262.73	1825.85	1663.13	11.22	
10000.00	10369.20	90.00	266.98	7060.00	83.58	29.25	262.73	1826.32	1658.33	10.87	
10100.00	10469.20	90.00	266.98	7060.00	86.21	29.97	262.74	1826.78	1653.52	10.54	
10200.00	10569.20	90.00	266.98	7060.00	88.84	30.68	262.74	1827.25	1648.68	10.23	
10300.00	10669.20	90.00	266.98	7060.00	91.49	31.40	262.74	1827.71	1643.84	9.94	
10400.00	10769.20	90.00	266.98	7060.00	94.15	32.11	262.74	1828.18	1638.97	9.66	
10500.00	10869.19	90.00	266.98	7060.00	96.82	32.83	262.74	1828.65	1634.10	9.40	
10600.00	10969.19	90.00	266.98	7060.00	99.49	33.54	262.74	1829.11	1629.21	9.15	
10700.00	11069.19	90.00	266.98	7060.00	102.17	34.26	262.75	1829.58	1624.32	8.91	
10800.00	11169.19	90.00	266.98	7060.00	104.86	34.98	262.75	1830.04	1619.41	8.69	
10900.00	11269.19	90.00	266.98	7060.00	107.55	35.70	262.75	1830.51	1614.49	8.47	
11000.00	11369.19	90.00	266.98	7060.00	110.25	36.42	262.75	1830.97	1609.57	8.27	
11100.00	11469.19	90.00	266.98	7060.00	112.95	37.13	262.75	1831.44	1604.64	8.07	
11200.00	11569.19	90.00	266.98	7060.00	115.66	37.85	262.76	1831.91	1599.70	7.89	
11300.00	11669.19	90.00	266.98	7060.00	118.37	38.57	262.76	1832.37	1594.75	7.71	
11400.00	11769.18	90.00	266.98	7060.00	121.09	39.29	262.76	1832.84	1589.80	7.54	
11500.00	11869.18	90.00	266.98	7060.00	123.81	40.01	262.76	1833.30	1584.84	7.38	
11600.00	11969.18	90.00	266.98	7060.00	126.53	40.73	262.76	1833.77	1579.87	7.22	
11700.00	12069.18	90.00	266.98	7060.00	129.26	41.45	262.76	1834.23	1574.90	7.07	
11800.00	12169.18	90.00	266.98	7060.00	131.99	42.18	262.77	1834.70	1569.92	6.93	
11900.00	12269.18	90.00	266.98	7060.00	134.72	42.90	262.77	1835.17	1564.94	6.79	
12000.00	12369.18	90.00	266.98	7060.00	137.45	43.62	262.77	1835.63	1559.96	6.66	
12100.00	12469.18	90.00	266.98	7060.00	140.19	44.34	262.77	1836.10	1554.97	6.53	
12200.00	12569.18	90.00	266.98	7060.00	142.93	45.06	262.77	1836.56	1549.98	6.41	
12300.00	12669.17	90.00	266.98	7060.00	145.68	45.79	262.78	1837.03	1544.98	6.29	
12400.00	12769.17	90.00	266.98	7060.00	148.42	46.51	262.78	1837.49	1539.98	6.18	
12500.00	12869.17	90.00	266.98	7060.00	151.17	47.23	262.78	1837.96	1534.98	6.07	
12600.00	12969.17	90.00	266.98	7060.00	153.91	47.96	262.78	1838.43	1529.97	5.96	
12700.00	13069.17	90.00	266.98	7060.00	156.67	48.68	262.78	1838.89	1524.96	5.86	
12800.00	13169.17	90.00	266.98	7060.00	159.42	49.40	262.79	1839.36	1519.95	5.76	
12900.00	13269.17	90.00	266.98	7060.00	162.17	50.13	262.79	1839.82	1514.93	5.66	
13000.00	13369.17	90.00	266.98	7060.00	164.93	50.85	262.79	1840.29	1509.92	5.57	
13100.00	13469.17	90.00	266.98	7060.00	167.68	51.58	262.79	1840.75	1504.90	5.48	
13200.00	13569.16	90.00	266.98	7060.00	170.44	52.30	262.79	1841.22	1499.87	5.39	
13300.00	13669.16	90.00	266.98	7060.00	173.20	53.03	262.79	1841.69	1494.85	5.31	
13400.00	13769.16	90.00	266.98	7060.00	175.96	53.75	262.80	1842.15	1489.82	5.23	
13500.00	13869.16	90.00	266.98	7060.00	178.72	54.48	262.80	1842.62	1484.79	5.15	
13600.00	13969.16	90.00	266.98	7060.00	181.49	55.20	262.80	1843.08	1479.76	5.07	
13700.00	14069.16	90.00	266.98	7060.00	184.25	55.93	262.80	1843.55	1474.73	5.00	
13800.00	14169.16	90.00	266.98	7060.00	187.02	56.65	262.80	1844.02	1469.69	4.93	
13900.00	14269.16	90.00	266.98	7060.00	189.78	57.38	262.81	1844.48	1464.66	4.86	
14000.00	14369.16	90.00	266.98	7060.00	192.55	58.11	262.81	1844.95	1459.62	4.79	
14100.00	14469.15	90.00	266.98	7060.00	195.32	58.83	262.81	1845.41	1454.58	4.72	
14200.00	14569.15	90.00	266.98	7060.00	198.09	59.56	262.81	1845.88	1449.54	4.66	
14300.00	14669.15	90.00	266.98	7060.00	200.86	60.29	262.81	1846.34	1444.50	4.59	
14400.00	14769.15	90.00	266.98	7060.00	203.63	61.01	262.81	1846.81	1439.45	4.53	
14500.00	14869.15	90.00	266.98	7060.00	206.40	61.74	262.82	1847.28	1434.41	4.47	
14600.00	14969.15	90.00	266.98	7060.00	209.17	62.47	262.82	1847.74	1429.36	4.42	
14700.00	15069.15	90.00	266.98	7060.00	211.94	63.19	262.82	1848.21	1424.31	4.36	
14800.00	15169.15	90.00	266.98	7060.00	214.72	63.92	262.82	1848.67	1419.26	4.31	
14900.00	15269.15	90.00	266.98	7060.00	217.49	64.65	262.82	1849.14	1414.21	4.25	
15000.00	15369.14	90.00	266.98	7060.00	220.27	65.38	262.83	1849.60	1409.16	4.20	
15100.00	15469.14	90.00	266.98	7060.00	223.04	66.11	262.83	1850.07	1404.11	4.15	

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
15200.00	15569.14	90.00	266.98	7060.00	225.82	66.83	262.83	1850.54	1399.06	4.10	
15300.00	15669.14	90.00	266.98	7060.00	228.59	67.56	262.83	1851.00	1394.00	4.05	
15322.07	15691.21	90.00	266.98	7060.00	229.21	67.72	262.83	1851.10	1392.89	4.04	