

**5D Plan Report**

Synergy Resources

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

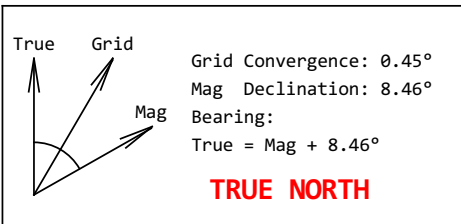
5 December 2016





Goetzel 12N-30B-M

Weld County, CO
Precision 562



Plan Data for Goetzel 12N-30B-M

Plan Point Information:											
DogLeg	Severity	Unit:	°/100.00ft						Position offsets from Slot centre		
MD	Inc	Az	TVD	+N/-S	+E/-W	VSec	DLS	Toolface			
(USft)	(°)	(°)	(USft)	(USft)	(USft)	(USft)	(DLSU)	(°)			
0.00	0.00	0.00	0.00	-0.00	0.00	-0.00	0.00	0.0			
1300.00	0.00	0.00	1300.00	-0.00	0.00	-0.00	0.00	0.0			
2113.65	16.27	108.30	2102.76	-36.04	108.97	-103.27	2.00	108.3			
6219.68	16.27	108.30	6044.29	-397.29	1201.36	-1138.51	0.00	0.0			
7533.52	90.00	266.75	6942.00	-532.60	516.49	-441.78	8.00	157.6			
15440.87	90.00	266.75	6942.00	-981.05	-7378.13	7443.07	0.00	0.0			

Target Set Information:							
Name: Goetzel 12N-30B-M							
Position offsets from Slot centre							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Lat	Long
	(USft)	(USft)	(USft)	(USft)	(USft)	(°)	(°)
LP 12N-30B-M	6942.00	-532.60	516.49	1409874.73	3194158.27	40.456411	-104.802281
PBHL 12N-30B-M	6942.00	-981.05	-7378.13	1409364.34	3186267.42	40.455177	-104.830650



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-30B-M

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

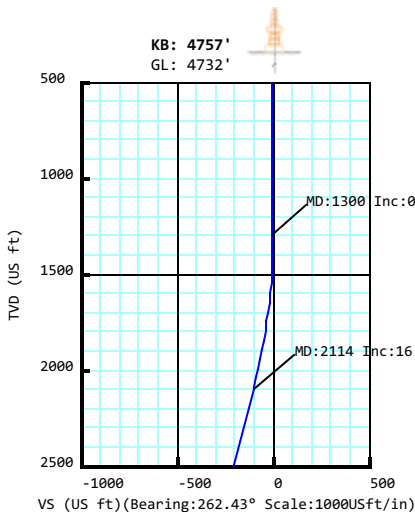
Site: Goetzel 25-29 Pad
Unit: USFeet
TVD Reference:
Company Name: Synergy Resources

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

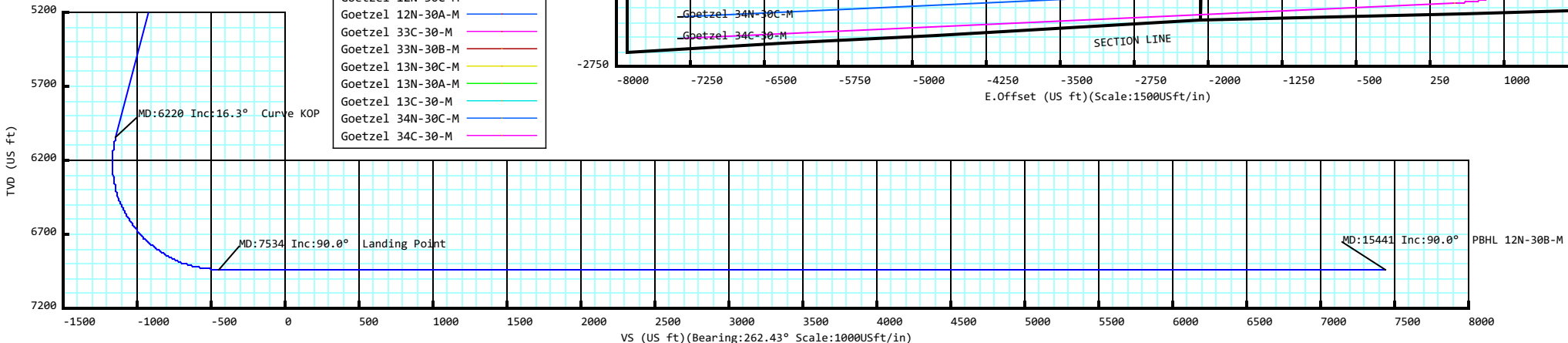
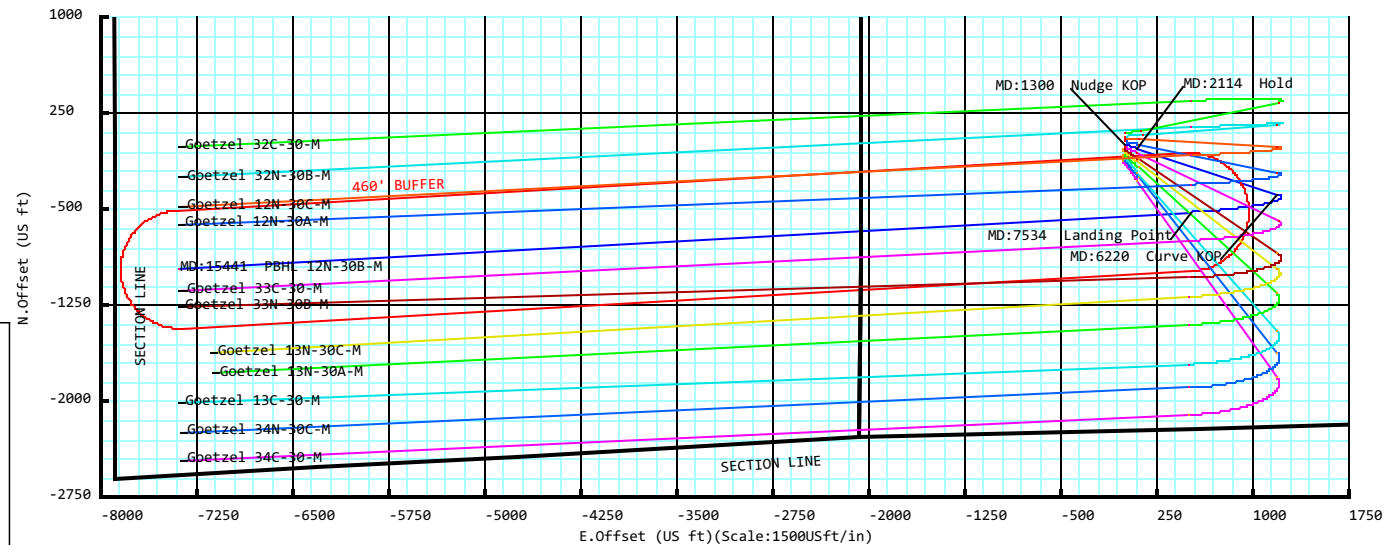
Slot: Goetzel 12N-30B-M
Position:
Offset is from Site centre
+N/-S: -79.78USft
Northing: 1410403.26USft
Latitude: 40.457873°
+E/-W: -0.83USft
Easting: 3193637.62USft
Longitude: -104.804137°
Elevation Above VRD: 4732.00USft

Well: Goetzel 12N-30B-M
Type: Main-Well
File Number:

Plan Folder: P1
Plan: P1:V1
Vertical Section: Position offset of origin from Slot centre:
+N/-S: 0.00USft
Azimuth: 262.43°
+E/-W: 0.00USft
Magnetic Parameters:
Model: Field Strength: Declination: Dip: Date:
bggm2016 52524(nT) 8.46° 66.93° 2016-11-18



Goetzel 12N-30B-M	
Goetzel 32C-30-M	
Goetzel 32N-30B-M	
Goetzel 12N-30C-M	
Goetzel 12N-30A-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-30B-M

Field Name: CO N - NAD 83	Map Units: US ft		Company Name: Synergy Resources	
	Vertical Reference Datum (VRD): Mean Sea Level			
	Projected Coordinate System: NAD83 / Colorado North (ftUS)			
	Comment:			
Site: Goetzel 25-29 Pad	Units: US ft	North Reference: True		Convergence Angle: 0.45
	Position:	Northing: 1410483.05 US ft		Latitude: 40.458092000
		Easting: 3193637.83 US ft		Longitude: -104.804134000
	Elevation above MSL:4732.00 US ft			
Comment:				
Slot: Goetzel 12N-30B-M	Position (Relative to Site Centre)			
	+N/-S: -79.78 US ft	Northing: 1410403.26 US ft		Latitude: 40.457873000
	+E/-W: -0.83 US ft	Easting: 3193637.62 US ft		Longitude: -104.804137000
	Slot TVD Reference: Ground Elevation			
	Elevation above MSL: 4732.00 US ft			
Comment:				
Well: Goetzel 12N-30B-M	Type:Main well		UWI:	Plan:P1:V1
	File Number:	Comment:		
	Closure Distance:7443.07US ft		Closure Azimuth:262.43°	
	Vertical Section: Position of Origin (Relative to Slot centre)			
	+N/-S: 0.00 US ft		+E/-W: 0.00 US ft	Az: 262.43°
	Magnetic Parameters:			
	Model: bggm2016	Field Strength: 52524.7nT	Declination: 8.46°	Dip: 66.93°
				Date: 18/Nov/2016

Drill floor: Plan: P1:V1

Rig Height (Drill Floor): 25.00 US ft	Elevation above MSL: 4757.00 US ft	Inclination: 0.00°	Azimuth: 0.00°
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Target set: Goetzel 12N-30B-M Comment:

Target Name:	Shape:	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (USFt)	Easting (USFt)	Comment
LP 12N-30B-M	Point	6942.00	-532.60	516.49	1409874.73	3194158.27	
PBHL 12N-30B-M	Point	6942.00	-981.05	-7378.13	1409364.34	3186267.42	

Wellpath created using minimum curvature.

Tie Point:

MD: 0.00 USFt	Inclination: 0.00°	Azimuth: 0.00°	TVD: 0.00 USFt	North Offset: - 0.00 USFt	East Offset: 0.00 USFt
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Salient Points: (Relative to Slot centre)(TVD relative to Drill Floor)

MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	B.Rate (°/100US ft)	T.Rate (°/100US ft)	DLS (°/100US ft)	Comment
0.00	0.00	0.00	0.00	-0.00	-0.00	0.00	0.00	0.00	0.00	
1300.00	0.00	0.00	1300.00	-0.00	-0.00	0.00	0.00	0.00	0.00	Nudge KOP
2113.65	16.27	108.30	2102.76	-103.27	-36.04	108.97	2.00	0.00	2.00	Hold
6219.68	16.27	108.30	6044.29	-1138.51	-397.29	1201.36	0.00	0.00	0.00	Curve KOP
7533.52	90.00	266.75	6942.00	-441.78	-532.60	516.49	5.61	12.06	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
15440.87	90.00	266.75	6942.00	7443.07	-981.05	-7378.13	0.00	0.00	0.00	PBHL 12N-30B-M
Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	B.Rate (°/100US ft)	T.Rate (°/100US ft)	DLS (°/100US ft)	Comment
0.00	0.00	0.00	0.00	-0.00	-0.00	0.00	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	-0.00	-0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	-0.00	-0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	-0.00	-0.00	0.00	0.00	0.00	0.00	
400.00	0.00	0.00	400.00	-0.00	-0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	-0.00	-0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	-0.00	-0.00	0.00	0.00	0.00	0.00	
700.00	0.00	0.00	700.00	-0.00	-0.00	0.00	0.00	0.00	0.00	
800.00	0.00	0.00	800.00	-0.00	-0.00	0.00	0.00	0.00	0.00	
900.00	0.00	0.00	900.00	-0.00	-0.00	0.00	0.00	0.00	0.00	
1000.00	0.00	0.00	1000.00	-0.00	-0.00	0.00	0.00	0.00	0.00	
1100.00	0.00	0.00	1100.00	-0.00	-0.00	0.00	0.00	0.00	0.00	
1200.00	0.00	0.00	1200.00	-0.00	-0.00	0.00	0.00	0.00	0.00	
1300.00	0.00	0.00	1300.00	-0.00	-0.00	0.00	0.00	0.00	0.00	
1400.00	2.00	108.30	1399.98	-1.57	-0.55	1.66	2.00	0.00	2.00	Nudge KOP
1500.00	4.00	108.30	1499.84	-6.28	-2.19	6.63	2.00	-0.00	2.00	
1600.00	6.00	108.30	1599.45	-14.12	-4.93	14.90	2.00	0.00	2.00	
1700.00	8.00	108.30	1698.70	-25.09	-8.75	26.47	2.00	-0.00	2.00	
1800.00	10.00	108.30	1797.47	-39.16	-13.67	41.32	2.00	0.00	2.00	
1900.00	12.00	108.30	1895.62	-56.33	-19.66	59.44	2.00	0.00	2.00	
2000.00	14.00	108.30	1993.06	-76.57	-26.72	80.79	2.00	-0.00	2.00	
2100.00	16.00	108.30	2089.64	-99.85	-34.84	105.37	2.00	-0.00	2.00	
2113.65	16.27	108.30	2102.76	-103.27	-36.04	108.97	2.00	0.00	2.00	Hold
2200.00	16.27	108.30	2185.65	-125.04	-43.63	131.94	0.00	0.00	0.00	
2300.00	16.27	108.30	2281.64	-150.25	-52.43	158.54	0.00	0.00	0.00	
2400.00	16.27	108.30	2377.63	-175.46	-61.23	185.15	0.00	0.00	0.00	
2500.00	16.27	108.30	2473.63	-200.68	-70.03	211.75	0.00	0.00	0.00	
2600.00	16.27	108.30	2569.62	-225.89	-78.82	238.36	0.00	0.00	0.00	
2700.00	16.27	108.30	2665.61	-251.10	-87.62	264.96	0.00	0.00	0.00	
2800.00	16.27	108.30	2761.61	-276.31	-96.42	291.57	0.00	0.00	0.00	
2900.00	16.27	108.30	2857.60	-301.53	-105.22	318.17	0.00	0.00	0.00	
3000.00	16.27	108.30	2953.60	-326.74	-114.02	344.78	0.00	0.00	0.00	
3100.00	16.27	108.30	3049.59	-351.95	-122.82	371.38	0.00	0.00	0.00	
3200.00	16.27	108.30	3145.58	-377.17	-131.61	397.99	0.00	0.00	0.00	
3300.00	16.27	108.30	3241.58	-402.38	-140.41	424.59	0.00	0.00	0.00	
3400.00	16.27	108.30	3337.57	-427.59	-149.21	451.19	0.00	0.00	0.00	
3500.00	16.27	108.30	3433.56	-452.80	-158.01	477.80	0.00	0.00	0.00	
3600.00	16.27	108.30	3529.56	-478.02	-166.81	504.40	0.00	0.00	0.00	
3700.00	16.27	108.30	3625.55	-503.23	-175.60	531.01	0.00	0.00	0.00	
3800.00	16.27	108.30	3721.54	-528.44	-184.40	557.61	0.00	0.00	0.00	
3900.00	16.27	108.30	3817.54	-553.65	-193.20	584.22	0.00	0.00	0.00	
4000.00	16.27	108.30	3913.53	-578.87	-202.00	610.82	0.00	0.00	0.00	
4100.00	16.27	108.30	4009.53	-604.08	-210.80	637.43	0.00	0.00	0.00	
4200.00	16.27	108.30	4105.52	-629.29	-219.59	664.03	0.00	0.00	0.00	
4300.00	16.27	108.30	4201.51	-654.51	-228.39	690.64	0.00	0.00	0.00	
4400.00	16.27	108.30	4297.51	-679.72	-237.19	717.24	0.00	0.00	0.00	
4500.00	16.27	108.30	4393.50	-704.93	-245.99	743.84	0.00	0.00	0.00	
4600.00	16.27	108.30	4489.49	-730.14	-254.79	770.45	0.00	0.00	0.00	
4700.00	16.27	108.30	4585.49	-755.36	-263.59	797.05	0.00	0.00	0.00	
4800.00	16.27	108.30	4681.48	-780.57	-272.38	823.66	0.00	0.00	0.00	
4900.00	16.27	108.30	4777.48	-805.78	-281.18	850.26	0.00	0.00	0.00	
5000.00	16.27	108.30	4873.47	-831.00	-289.98	876.87	0.00	0.00	0.00	
5100.00	16.27	108.30	4969.46	-856.21	-298.78	903.47	0.00	0.00	0.00	
5200.00	16.27	108.30	5065.46	-881.42	-307.58	930.08	0.00	0.00	0.00	

5D Plan Report

Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)										Comment
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N. Offset (US ft)	E. Offset (US ft)	B. Rate (°/100US ft)	T. Rate (°/100US ft)	DLS (°/100US ft)	
5300.00	16.27	108.30	5161.45	-906.63	-316.37	956.68	0.00	0.00	0.00	
5400.00	16.27	108.30	5257.44	-931.85	-325.17	983.29	0.00	0.00	0.00	
5500.00	16.27	108.30	5353.44	-957.06	-333.97	1009.89	0.00	0.00	0.00	
5600.00	16.27	108.30	5449.43	-982.27	-342.77	1036.49	0.00	0.00	0.00	
5700.00	16.27	108.30	5545.43	-1007.48	-351.57	1063.10	0.00	0.00	0.00	
5800.00	16.27	108.30	5641.42	-1032.70	-360.36	1089.70	0.00	0.00	0.00	
5900.00	16.27	108.30	5737.41	-1057.91	-369.16	1116.31	0.00	0.00	0.00	
6000.00	16.27	108.30	5833.41	-1083.12	-377.96	1142.91	0.00	0.00	0.00	
6100.00	16.27	108.30	5929.40	-1108.34	-386.76	1169.52	0.00	0.00	0.00	
6200.00	16.27	108.30	6025.39	-1133.55	-395.56	1196.12	0.00	0.00	0.00	
6219.68	16.27	108.30	6044.29	-1138.51	-397.29	1201.36	0.00	0.00	0.00	Curve KOP
6300.00	10.61	121.67	6122.39	-1154.38	-404.71	1218.35	-7.05	16.65	8.00	
6400.00	6.16	170.38	6221.41	-1161.71	-414.85	1227.10	-4.45	48.71	8.00	
6500.00	9.53	227.05	6320.59	-1155.14	-425.79	1221.93	3.37	56.67	8.00	
6600.00	16.47	245.48	6418.01	-1134.80	-437.34	1202.94	6.94	18.43	8.00	
6700.00	24.06	252.86	6511.77	-1101.08	-449.25	1170.51	7.60	7.37	8.00	
6800.00	31.85	256.81	6600.03	-1054.64	-461.30	1125.26	7.79	3.95	8.00	
6900.00	39.72	259.33	6681.10	-996.39	-473.25	1068.09	7.86	2.52	8.00	
7000.00	47.62	261.13	6753.38	-927.45	-484.88	1000.09	7.90	1.80	8.00	
7100.00	55.54	262.53	6815.47	-849.17	-495.95	922.59	7.93	1.40	8.00	
7200.00	63.48	263.68	6866.17	-763.07	-506.25	837.10	7.94	1.15	8.00	
7300.00	71.43	264.68	6904.48	-670.84	-515.58	745.30	7.95	1.00	8.00	
7400.00	79.38	265.60	6929.66	-574.25	-523.75	648.95	7.95	0.91	8.00	
7500.00	87.33	266.46	6941.22	-475.20	-530.62	549.94	7.95	0.87	8.00	
7533.52	90.00	266.75	6942.00	-441.78	-532.60	516.49	7.95	0.85	8.00	Landing Point
7600.00	90.00	266.75	6942.00	-375.49	-536.37	450.12	0.00	0.00	0.00	
7700.00	90.00	266.75	6942.00	-275.77	-542.04	350.28	0.00	0.00	0.00	
7800.00	90.00	266.75	6942.00	-176.06	-547.72	250.44	0.00	0.00	0.00	
7900.00	90.00	266.75	6942.00	-76.34	-553.39	150.60	0.00	0.00	0.00	
8000.00	90.00	266.75	6942.00	23.37	-559.06	50.76	0.00	0.00	0.00	
8100.00	90.00	266.75	6942.00	123.09	-564.73	-49.08	0.00	0.00	0.00	
8200.00	90.00	266.75	6942.00	222.80	-570.40	-148.92	0.00	0.00	0.00	
8300.00	90.00	266.75	6942.00	322.52	-576.07	-248.76	0.00	0.00	0.00	
8400.00	90.00	266.75	6942.00	422.23	-581.74	-348.60	0.00	0.00	0.00	
8500.00	90.00	266.75	6942.00	521.95	-587.42	-448.44	0.00	0.00	0.00	
8600.00	90.00	266.75	6942.00	621.66	-593.09	-548.27	0.00	0.00	0.00	
8700.00	90.00	266.75	6942.00	721.38	-598.76	-648.11	0.00	0.00	0.00	
8800.00	90.00	266.75	6942.00	821.10	-604.43	-747.95	0.00	0.00	0.00	
8900.00	90.00	266.75	6942.00	920.81	-610.10	-847.79	0.00	0.00	0.00	
9000.00	90.00	266.75	6942.00	1020.53	-615.77	-947.63	0.00	0.00	0.00	
9100.00	90.00	266.75	6942.00	1120.24	-621.44	-1047.47	0.00	0.00	0.00	
9200.00	90.00	266.75	6942.00	1219.96	-627.11	-1147.31	0.00	0.00	0.00	
9300.00	90.00	266.75	6942.00	1319.67	-632.79	-1247.15	0.00	0.00	0.00	
9400.00	90.00	266.75	6942.00	1419.39	-638.46	-1346.99	0.00	0.00	0.00	
9500.00	90.00	266.75	6942.00	1519.10	-644.13	-1446.83	0.00	0.00	0.00	
9600.00	90.00	266.75	6942.00	1618.82	-649.80	-1546.67	0.00	0.00	0.00	
9700.00	90.00	266.75	6942.00	1718.54	-655.47	-1646.50	0.00	0.00	0.00	
9800.00	90.00	266.75	6942.00	1818.25	-661.14	-1746.34	0.00	0.00	0.00	
9900.00	90.00	266.75	6942.00	1917.97	-666.81	-1846.18	0.00	0.00	0.00	
10000.00	90.00	266.75	6942.00	2017.68	-672.49	-1946.02	0.00	0.00	0.00	
10100.00	90.00	266.75	6942.00	2117.40	-678.16	-2045.86	0.00	0.00	0.00	
10200.00	90.00	266.75	6942.00	2217.11	-683.83	-2145.70	0.00	0.00	0.00	
10300.00	90.00	266.75	6942.00	2316.83	-689.50	-2245.54	0.00	0.00	0.00	
10400.00	90.00	266.75	6942.00	2416.54	-695.17	-2345.38	0.00	0.00	0.00	
10500.00	90.00	266.75	6942.00	2516.26	-700.84	-2445.22	0.00	0.00	0.00	
10600.00	90.00	266.75	6942.00	2615.97	-706.51	-2545.06	0.00	0.00	0.00	
10700.00	90.00	266.75	6942.00	2715.69	-712.18	-2644.90	0.00	0.00	0.00	
10800.00	90.00	266.75	6942.00	2815.41	-717.86	-2744.73	0.00	0.00	0.00	
10900.00	90.00	266.75	6942.00	2915.12	-723.53	-2844.57	0.00	0.00	0.00	

5D Plan Report

Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)										Comment
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N. Offset (US ft)	E. Offset (US ft)	B. Rate (°/100US ft)	T. Rate (°/100US ft)	DLS (°/100US ft)	
11000.00	90.00	266.75	6942.00	3014.84	-729.20	-2944.41	0.00	0.00	0.00	
11100.00	90.00	266.75	6942.00	3114.55	-734.87	-3044.25	0.00	0.00	0.00	
11200.00	90.00	266.75	6942.00	3214.27	-740.54	-3144.09	0.00	0.00	0.00	
11300.00	90.00	266.75	6942.00	3313.98	-746.21	-3243.93	0.00	0.00	0.00	
11400.00	90.00	266.75	6942.00	3413.70	-751.88	-3343.77	0.00	0.00	0.00	
11500.00	90.00	266.75	6942.00	3513.41	-757.55	-3443.61	0.00	0.00	0.00	
11600.00	90.00	266.75	6942.00	3613.13	-763.23	-3543.45	0.00	0.00	0.00	
11700.00	90.00	266.75	6942.00	3712.85	-768.90	-3643.29	0.00	0.00	0.00	
11800.00	90.00	266.75	6942.00	3812.56	-774.57	-3743.12	0.00	0.00	0.00	
11900.00	90.00	266.75	6942.00	3912.28	-780.24	-3842.96	0.00	0.00	0.00	
12000.00	90.00	266.75	6942.00	4011.99	-785.91	-3942.80	0.00	0.00	0.00	
12100.00	90.00	266.75	6942.00	4111.71	-791.58	-4042.64	0.00	0.00	0.00	
12200.00	90.00	266.75	6942.00	4211.42	-797.25	-4142.48	0.00	0.00	0.00	
12300.00	90.00	266.75	6942.00	4311.14	-802.93	-4242.32	0.00	0.00	0.00	
12400.00	90.00	266.75	6942.00	4410.85	-808.60	-4342.16	0.00	0.00	0.00	
12500.00	90.00	266.75	6942.00	4510.57	-814.27	-4442.00	0.00	0.00	0.00	
12600.00	90.00	266.75	6942.00	4610.29	-819.94	-4541.84	0.00	0.00	0.00	
12700.00	90.00	266.75	6942.00	4710.00	-825.61	-4641.68	0.00	0.00	0.00	
12800.00	90.00	266.75	6942.00	4809.72	-831.28	-4741.52	0.00	0.00	0.00	
12900.00	90.00	266.75	6942.00	4909.43	-836.95	-4841.35	0.00	0.00	0.00	
13000.00	90.00	266.75	6942.00	5009.15	-842.62	-4941.19	0.00	0.00	0.00	
13100.00	90.00	266.75	6942.00	5108.86	-848.30	-5041.03	0.00	0.00	0.00	
13200.00	90.00	266.75	6942.00	5208.58	-853.97	-5140.87	0.00	0.00	0.00	
13300.00	90.00	266.75	6942.00	5308.29	-859.64	-5240.71	0.00	0.00	0.00	
13400.00	90.00	266.75	6942.00	5408.01	-865.31	-5340.55	0.00	0.00	0.00	
13500.00	90.00	266.75	6942.00	5507.72	-870.98	-5440.39	0.00	0.00	0.00	
13600.00	90.00	266.75	6942.00	5607.44	-876.65	-5540.23	0.00	0.00	0.00	
13700.00	90.00	266.75	6942.00	5707.16	-882.32	-5640.07	0.00	0.00	0.00	
13800.00	90.00	266.75	6942.00	5806.87	-887.99	-5739.91	0.00	0.00	0.00	
13900.00	90.00	266.75	6942.00	5906.59	-893.67	-5839.74	0.00	0.00	0.00	
14000.00	90.00	266.75	6942.00	6006.30	-899.34	-5939.58	0.00	0.00	0.00	
14100.00	90.00	266.75	6942.00	6106.02	-905.01	-6039.42	0.00	0.00	0.00	
14200.00	90.00	266.75	6942.00	6205.73	-910.68	-6139.26	0.00	0.00	0.00	
14300.00	90.00	266.75	6942.00	6305.45	-916.35	-6239.10	0.00	0.00	0.00	
14400.00	90.00	266.75	6942.00	6405.16	-922.02	-6338.94	0.00	0.00	0.00	
14500.00	90.00	266.75	6942.00	6504.88	-927.69	-6438.78	0.00	0.00	0.00	
14600.00	90.00	266.75	6942.00	6604.60	-933.37	-6538.62	0.00	0.00	0.00	
14700.00	90.00	266.75	6942.00	6704.31	-939.04	-6638.46	0.00	0.00	0.00	
14800.00	90.00	266.75	6942.00	6804.03	-944.71	-6738.30	0.00	0.00	0.00	
14900.00	90.00	266.75	6942.00	6903.74	-950.38	-6838.14	0.00	0.00	0.00	
15000.00	90.00	266.75	6942.00	7003.46	-956.05	-6937.97	0.00	0.00	0.00	
15100.00	90.00	266.75	6942.00	7103.17	-961.72	-7037.81	0.00	0.00	0.00	
15200.00	90.00	266.75	6942.00	7202.89	-967.39	-7137.65	0.00	0.00	0.00	
15300.00	90.00	266.75	6942.00	7302.60	-973.06	-7237.49	0.00	0.00	0.00	
15400.00	90.00	266.75	6942.00	7402.32	-978.74	-7337.33	0.00	0.00	0.00	
15440.87	90.00	266.75	6942.00	7443.07	-981.05	-7378.13	0.00	0.00	0.00	PBHL 12N-30B-M



Synergy Resources

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

5 December 2016

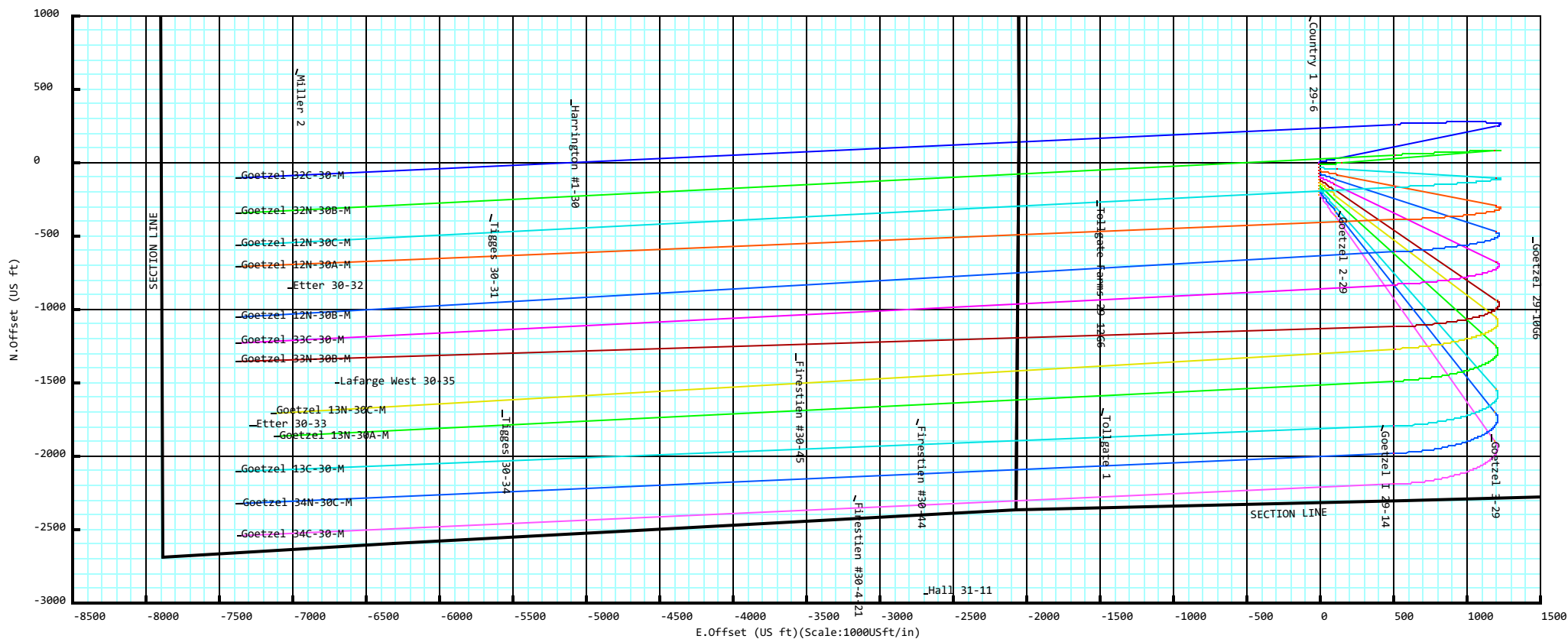




Goetzel Pad
Weld County, CO
Precision 562

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

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



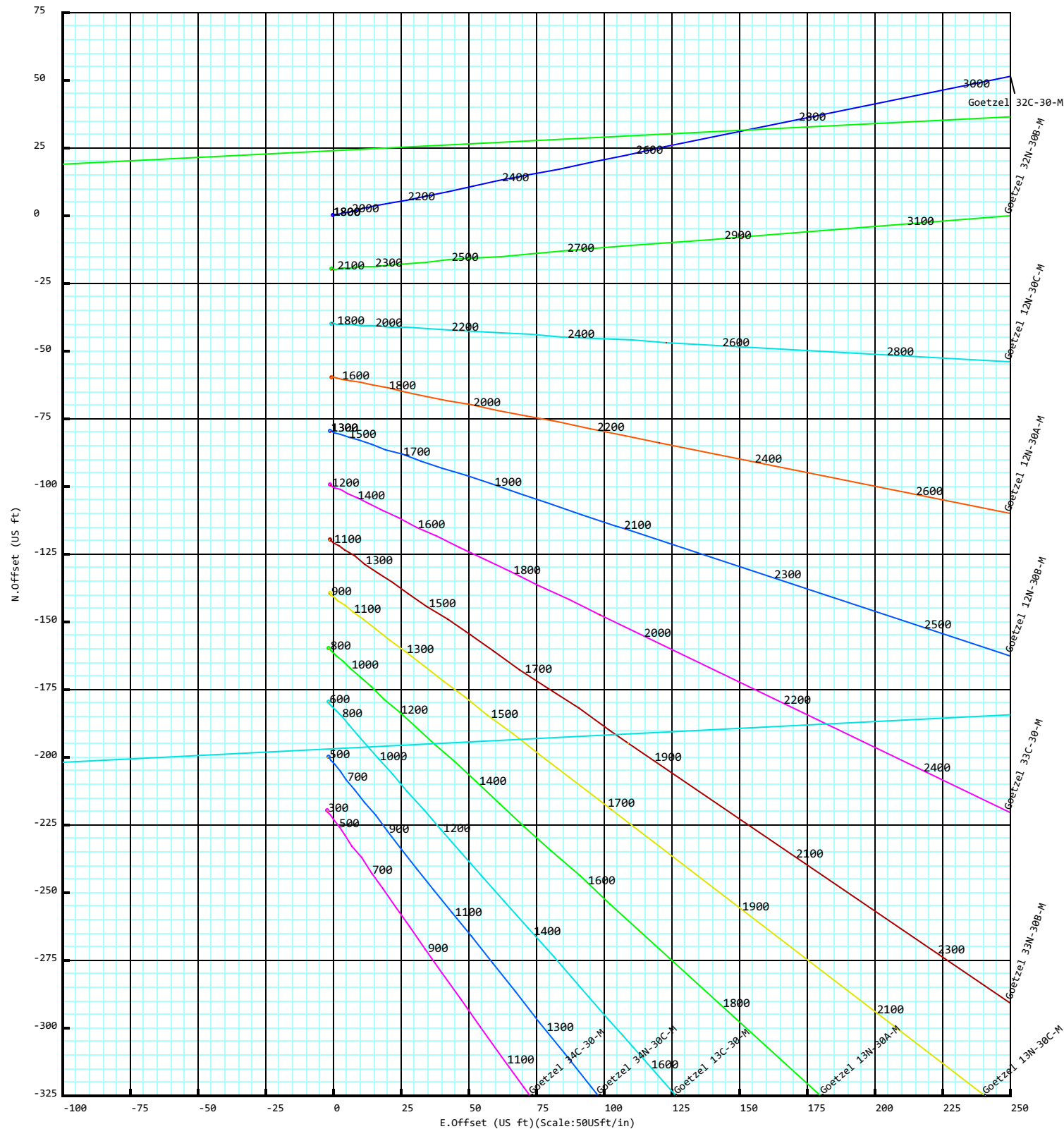


Goetzl Pad
Weld County, CO
Precision 562

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



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



Goetzel 12N-30B-M

Field Name: CO N - NAD 83	Map Units: US ft		Company Name: Synergy Resources	
	Vertical Reference Datum (VRD): Mean Sea Level			
	Projected Coordinate System: NAD83 / Colorado North (ftUS)			
	Comment:			
Site: Goetzel 25-29 Pad	Units: US ft	North Reference: True	Convergence Angle: 0.45	
	Position:	Northing: 1410483.05 US ft	Latitude: 40.458092000	
		Easting: 3193637.83 US ft	Longitude: -104.804134000	
	Elevation above MSL:4732.00 US ft			
Comment:				
Slot: Goetzel 12N-30B-M	Position (Relative to Site Centre)			
	+N/-S: -79.78 US ft	Northing: 1410403.26 US ft	Latitude: 40.457873000	
	+E/-W: -0.83 US ft	Easting: 3193637.62 US ft	Longitude: -104.804137000	
	Slot TVD Reference: Ground Elevation			
	Elevation above MSL: 4732.00 US ft			
	Comment:			
Well: Goetzel 12N-30B-M	Type:Main well		UWI:	Plan:Working Plan
	File Number:	Comment:		
	Closure Distance:7443.07US ft		Closure Azimuth:262.43°	
	Vertical Section: Position of Origin (Relative to Slot centre)			
	+N/-S: 0.00 US ft		+E/-W: 0.00 US ft	Az: 262.43°
	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): 25.00us ft	Elevation above MSL: 4757.00us 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-30B-M (p)	0.00	15440.87	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)
 Tigges 30-34 (s)
 Goetzel 32C-30-M (p)
 Goetzel 32N-30B-M (p)
 Goetzel 12N-30C-M (p)
 Goetzel 12N-30A-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)

Secondary Well Names:

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

Anti-Collision Report Terminology

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

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

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

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

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

AC Filter Info: No filter has been applied.

Default Survey Tool: MWD

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

5D Anti-Collision Report

Anti-Collision Summary (TVD relative to Drill Floor)**SF**

Secondary Well Name	Pri MD (US ft)	Sec MD (US ft)	TVD (US ft)	CC (US ft)	ES (US ft)	SF	Risk
Etter 30-32 (s)	15079.30	6925.00	6942.00	179.90	-249.94	0.42	SF(Hi)
Goetzel 33N-30B-M (p)	15440.87	15448.56	6942.00	296.23	-166.80	0.64	SF(Hi)
Goetzel 33C-30-M (p)	15440.87	15592.63	6942.00	229.47	-121.93	0.65	SF(Hi)
Goetzel 12N-30A-M (p)	15428.10	15322.07	6942.00	365.72	-76.33	0.83	SF(Hi)
Goetzel 12N-30C-M (p)	15420.44	15501.26	6942.00	497.34	37.01	1.08	SF(Med)
Goetzel 29-10G6 (s)	6452.54	6240.62	6273.62	231.19	26.65	1.13	SF(Med)
Lafarge West 30-35 (s)	14796.09	6917.00	6942.00	484.66	63.06	1.15	SF(Med)
Goetzel 2-29 (s)	7909.77	6914.00	6942.00	293.48	51.94	1.22	SF(Med)
Firestien #30-45 (s)	11678.52	6917.00	6942.00	467.55	131.79	1.39	SF(Med)
Goetzel 13N-30C-M (p)	15257.62	15286.68	6942.00	663.49	211.70	1.47	SF(Med)
Tigges 30-31 (s)	13689.65	6925.00	6942.00	597.66	206.31	1.53	SF(Lo)
Goetzel 32N-30B-M (p)	15415.96	15473.86	6942.00	715.19	250.60	1.54	SF(Lo)
Tollgate Farms 29-12G6 (s)	9564.06	6915.00	6942.00	465.34	186.27	1.67	SF(Lo)
Goetzel 13N-30A-M (p)	15265.82	15136.85	6942.00	839.55	393.39	1.88	SF(Lo)
Tigges 30-34 (s)	13715.04	6909.00	6942.00	737.59	346.08	1.88	SF(Lo)
Goetzel 32C-30-M (p)	15417.88	15644.54	6942.00	972.63	518.33	2.14	SF(Lo)
Goetzel 13C-30-M (p)	15440.87	15662.96	6942.00	1053.39	594.15	2.29	SF(Lo)
Goetzel 34N-30C-M (p)	15440.87	15576.01	6942.00	1269.67	807.19	2.75	
Goetzel 34C-30-M (p)	15440.87	15705.85	6942.00	1493.34	1033.03	3.24	

5D Anti-Collision Report

CC												
Secondary Well Name			Pri MD (US ft)	Sec MD (US ft)		TVD (US ft)		CC (US ft)	ES (US ft)	SF	Risk	
Goetzel 33C-30-M (p)			50.00	50.00		50.00		20.04	19.19	23.75	CC (Med)	
Goetzel 12N-30A-M (p)			0.00	0.00		0.00		20.04	19.31	27.33	CC (Med)	
Goetzel 12N-30C-M (p)			0.00	0.00		0.00		39.71	38.98	54.16	CC (Lo)	
Goetzel 33N-30B-M (p)			0.00	0.00		0.00		40.07	39.34	54.65	CC (Lo)	
Goetzel 32N-30B-M (p)			0.00	0.00		0.00		59.75	59.01	81.48	CC (Lo)	
Goetzel 13N-30C-M (p)			50.00	50.00		50.00		60.11	59.27	71.25	CC (Lo)	
Goetzel 32C-30-M (p)			0.00	0.00		0.00		79.79	79.05	108.80		
Goetzel 13N-30A-M (p)			0.00	0.00		0.00		80.15	79.41	109.30		
Goetzel 13C-30-M (p)			50.00	50.00		50.00		100.18	99.34	118.75		
Goetzel 34N-30C-M (p)			0.00	0.00		0.00		120.22	119.49	163.94		
Goetzel 34C-30-M (p)			50.00	50.00		50.00		140.26	139.42	166.26		
Etter 30-32 (s)			15076.37	6925.00		6942.00		179.88	-249.78	0.42	SF(Hi)	
Goetzel 2-29 (s)			2463.67	2410.75		2438.75		203.97	126.04	2.62		
Goetzel 29-10G6 (s)			6419.34	6207.63		6240.63		230.39	27.28	1.13	SF(Med)	
Tollgate Farms 29-12G6 (s)			9544.34	6915.00		6942.00		464.92	186.60	1.67	SF(Lo)	
Firestien #30-45 (s)			11651.56	6917.00		6942.00		466.77	131.86	1.39	SF(Med)	
Lafarge West 30-35 (s)			14793.95	6917.00		6942.00		484.66	63.07	1.15	SF(Med)	
Tigges 30-31 (s)			13669.53	6925.00		6942.00		597.31	206.63	1.53	SF(Lo)	
Tigges 30-34 (s)			13671.09	6909.00		6942.00		736.28	346.04	1.89	SF(Lo)	
Primary Well: Goetzel 12N-30B-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)												
MD (US ft)		Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Nearest Well	Risk
0.00		0.00	0.00	0.00	0.00	0.00	179.55	20.04	19.30	27.32	Goetzel 33C-30-M (p)	CC (Med)
100.00		0.00	0.00	100.00	0.11	0.11	179.55	20.04	19.08	21.00	Goetzel 33C-30-M (p)	CC (Med)
200.00		0.00	0.00	200.00	0.34	0.34	179.55	20.04	18.63	14.28	Goetzel 33C-30-M (p)	CC (Med)
300.00		0.00	0.00	300.00	0.56	0.56	179.55	20.04	18.18	10.81	Goetzel 33C-30-M (p)	CC (Med)
400.00		0.00	0.00	400.00	0.79	0.79	179.55	20.04	17.73	8.70	Goetzel 33C-30-M (p)	CC (Med)
500.00		0.00	0.00	500.00	1.01	1.01	179.55	20.04	17.28	7.28	Goetzel 33C-30-M (p)	CC (Med)
600.00		0.00	0.00	600.00	1.24	1.24	179.55	20.04	16.83	6.26	Goetzel 33C-30-M (p)	CC (Med)
700.00		0.00	0.00	700.00	1.46	1.46	179.55	20.04	16.39	5.49	Goetzel 33C-30-M (p)	CC (Med)
800.00		0.00	0.00	800.00	1.69	1.69	179.55	20.04	15.94	4.89	Goetzel 33C-30-M (p)	CC (Med)
900.00		0.00	0.00	900.00	1.91	1.91	179.55	20.04	15.49	4.40	Goetzel 33C-30-M (p)	CC (Med)
1000.00		0.00	0.00	1000.00	2.14	2.14	179.55	20.04	15.04	4.01	Goetzel 33C-30-M (p)	CC (Med)
1100.00		0.00	0.00	1100.00	2.36	2.36	179.55	20.04	14.59	3.68		CC (Med)

5D Anti-Collision Report

Primary Well: Goetzel 12N-30B-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Nearest Well	Risk
1200.00	0.00	0.00	1200.00	2.58	2.58	0.35	20.04	14.14	3.40	Goetzel 33C-30-M (p) Goetzel 12N-30A-M (p)	CC (Med)
1300.00	0.00	0.00	1300.00	2.81	2.81	0.35	20.04	13.69	3.16	Goetzel 12N-30A-M (p)	CC (Med)
1400.00	2.00	107.85	1399.98	3.02	3.01	247.88	20.63	13.86	3.05	Goetzel 12N-30A-M (p)	CC (Med)
1500.00	4.00	107.85	1499.84	3.21	3.20	236.77	22.92	15.74	3.19	Goetzel 12N-30A-M (p)	CC (Med)
1600.00	6.00	107.85	1599.45	3.42	3.39	227.75	26.48	18.91	3.50	Goetzel 12N-30A-M (p)	CC (Med)
1700.00	8.00	107.85	1698.70	3.65	3.59	221.57	30.83	22.86	3.87	Goetzel 12N-30A-M (p)	CC (Med)
1800.00	10.00	107.85	1797.47	3.91	3.78	217.51	35.71	27.30	4.25	Goetzel 12N-30A-M (p)	CC (Lo)
1900.00	12.00	107.85	1895.62	4.20	3.98	54.23	253.32	194.43	4.30	Goetzel 2- 29 (s)	CC (Lo)
1900.00	12.00	107.85	1895.62	4.20	3.98	214.92	40.96	32.10	4.63	Goetzel 12N-30A-M (p)	
2000.00	14.00	107.85	1993.06	4.55	4.18	58.72	240.66	178.61	3.88	Goetzel 2- 29 (s)	CC (Lo)
2000.00	14.00	107.85	1993.06	4.55	4.18	213.38	46.49	37.17	4.99	Goetzel 12N-30A-M (p)	
2100.00	16.00	107.85	2089.64	4.95	4.39	64.36	227.98	162.49	3.48	Goetzel 2- 29 (s)	CC (Lo)
2100.00	16.00	107.85	2089.64	4.95	4.39	212.58	52.27	42.44	5.32	Goetzel 12N-30A-M (p)	
2200.00	16.27	107.85	2185.65	5.40	4.62	70.83	216.93	148.06	3.15	Goetzel 2- 29 (s)	CC (Lo)
2200.00	16.27	107.85	2185.65	5.40	4.62	212.96	57.16	46.76	5.49	Goetzel 12N-30A-M (p)	
2300.00	16.27	107.85	2281.64	5.87	4.87	77.83	209.05	136.95	2.90	Goetzel 2- 29 (s)	CC (Lo)
2300.00	16.27	107.85	2281.64	5.87	4.87	215.46	59.44	48.36	5.37	Goetzel 12N-30A-M (p)	
2400.00	16.27	107.85	2377.63	6.38	5.12	85.21	204.74	129.07	2.71	Goetzel 2- 29 (s)	CC (Lo)
2400.00	16.27	107.85	2377.63	6.38	5.12	218.61	60.86	49.00	5.13	Goetzel 12N-30A-M (p)	
2500.00	16.27	107.85	2473.63	6.89	5.38	92.75	204.22	125.01	2.58	Goetzel 2- 29 (s)	CC (Lo)
2500.00	16.27	107.85	2473.63	6.89	5.38	221.62	62.46	49.73	4.91	Goetzel 12N-30A-M (p)	
2600.00	16.27	107.85	2569.62	7.42	5.64	100.20	207.52	124.93	2.51	Goetzel 2- 29 (s)	CC (Lo)
2600.00	16.27	107.85	2569.62	7.42	5.64	224.47	64.23	50.56	4.70	Goetzel 12N-30A-M (p)	
2700.00	16.27	107.85	2665.61	7.96	5.90	107.32	214.46	128.70	2.50	Goetzel 2- 29 (s)	CC (Lo)
2700.00	16.27	107.85	2665.61	7.96	5.90	227.16	66.15	51.47	4.51	Goetzel 12N-30A-M (p)	
2800.00	16.27	107.85	2761.61	8.51	6.17	113.93	224.70	135.54	2.52	Goetzel 2- 29 (s)	CC (Lo)
2800.00	16.27	107.85	2761.61	8.51	6.17	229.69	68.20	52.44	4.33	Goetzel 12N-30A-M (p)	

5D Anti-Collision Report

Primary Well: Goetzel 12N-30B-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Nearest Well	Risk
2900.00	16.27	107.85	2857.60	9.07	6.44	119.92	237.82	145.37	2.57	Goetzel 2- 29 (s)	
2900.00	16.27	107.85	2857.60	9.07	6.44	232.07	70.38	53.52	4.17	Goetzel 12N-30A-M (p)	
3000.00	16.27	107.85	2953.60	9.63	6.71	125.28	253.37	157.96	2.66	Goetzel 2- 29 (s)	
3000.00	16.27	107.85	2953.60	9.63	6.71	234.31	72.67	54.65	4.03	Goetzel 12N-30A-M (p)	
3100.00	16.27	107.85	3049.59	10.20	6.98	130.01	270.93	172.14	2.74	Goetzel 2- 29 (s)	
3100.00	16.27	107.85	3049.59	10.20	6.98	236.40	75.07	55.89	3.91	Goetzel 12N-30A-M (p)	
3200.00	16.27	107.85	3145.58	10.77	7.26	134.16	290.15	188.37	2.85	Goetzel 2- 29 (s)	
3200.00	16.27	107.85	3145.58	10.77	7.26	238.36	77.56	57.17	3.80	Goetzel 12N-30A-M (p)	
3300.00	16.27	107.85	3241.58	11.35	7.54	137.81	310.70	205.81	2.96	Goetzel 2- 29 (s)	
3300.00	16.27	107.85	3241.58	11.35	7.54	240.20	80.13	58.53	3.71	Goetzel 12N-30A-M (p)	
3400.00	16.27	107.85	3337.57	11.92	7.82	141.00	332.35	224.18	3.07	Goetzel 2- 29 (s)	
3400.00	16.27	107.85	3337.57	11.92	7.82	241.93	82.79	59.97	3.63	Goetzel 12N-30A-M (p)	
3500.00	16.27	107.85	3433.56	12.50	8.10	143.81	354.89	243.73	3.19	Goetzel 2- 29 (s)	
3500.00	16.27	107.85	3433.56	12.50	8.10	243.54	85.51	61.45	3.55	Goetzel 12N-30A-M (p)	
3600.00	16.27	107.85	3529.56	13.09	8.39	146.29	378.16	264.15	3.32	Goetzel 2- 29 (s)	
3600.00	16.27	107.85	3529.56	13.09	8.39	245.05	88.30	62.99	3.49	Goetzel 12N-30A-M (p)	
3700.00	16.27	107.85	3625.55	13.67	8.67	148.48	402.04	284.67	3.43	Goetzel 2- 29 (s)	
3700.00	16.27	107.85	3625.55	13.67	8.67	246.47	91.14	64.59	3.43	Goetzel 12N-30A-M (p)	
3800.00	16.27	107.85	3721.54	14.26	8.96	247.81	94.04	66.25	3.38	Goetzel 12N-30A-M (p)	
3900.00	16.27	107.85	3817.54	14.85	9.24	249.06	96.98	67.92	3.34	Goetzel 12N-30A-M (p)	
4000.00	16.27	107.85	3913.53	15.44	9.53	250.24	99.97	69.64	3.30	Goetzel 12N-30A-M (p)	
4100.00	16.27	107.85	4009.53	16.03	9.82	251.35	103.00	71.40	3.26	Goetzel 12N-30A-M (p)	
4200.00	16.27	107.85	4105.52	16.62	10.10	252.40	106.07	73.21	3.23	Goetzel 12N-30A-M (p)	
4300.00	16.27	107.85	4201.51	17.21	10.39	253.38	109.16	75.06	3.20	Goetzel 12N-30A-M (p)	
4400.00	16.27	107.85	4297.51	17.80	10.68	254.32	112.29	76.94	3.18	Goetzel 12N-30A-M (p)	
4500.00	16.27	107.85	4393.50	18.40	10.97	255.20	115.45	78.85	3.15	Goetzel 12N-30A-M (p)	
4600.00	16.27	107.85	4489.49	18.99	11.27	256.03	118.63	80.80	3.14	Goetzel 12N-30A-M (p)	
4700.00	16.27	107.85	4585.49	19.59	11.56	256.82	121.84	82.75	3.12	Goetzel 12N-30A-M (p)	

5D Anti-Collision Report

Primary Well: Goetzel 12N-30B-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Nearest Well	Risk
4800.00	16.27	107.85	4681.48	20.18	11.85	257.57	125.07	84.72	3.10	Goetzel 12N-30A-M (p)	
4900.00	16.27	107.85	4777.48	20.78	12.14	258.28	128.32	86.72	3.08	Goetzel 12N-30A-M (p)	
5000.00	16.27	107.85	4873.47	21.37	12.43	258.96	131.59	88.74	3.07	Goetzel 12N-30A-M (p)	
5100.00	16.27	107.85	4969.46	21.97	12.73	259.61	134.87	90.78	3.06	Goetzel 12N-30A-M (p)	
5200.00	16.27	107.85	5065.46	22.57	13.02	260.22	138.17	92.84	3.05	Goetzel 12N-30A-M (p)	
5300.00	16.27	107.85	5161.45	23.17	13.31	260.80	141.49	94.92	3.04	Goetzel 12N-30A-M (p)	
5400.00	16.27	107.85	5257.44	23.77	13.61	354.67	486.30	316.38	2.86	Goetzel 29- 10G6 (s)	
5400.00	16.27	107.85	5257.44	23.77	13.61	261.36	144.82	97.02	3.03	Goetzel 12N-30A-M (p)	
5500.00	16.27	107.85	5353.44	24.36	13.90	354.34	458.40	285.22	2.65	Goetzel 29- 10G6 (s)	
5500.00	16.27	107.85	5353.44	24.36	13.90	261.89	148.17	99.13	3.02	Goetzel 12N-30A-M (p)	
5600.00	16.27	107.85	5449.43	24.96	14.20	353.97	430.51	254.08	2.44	Goetzel 29- 10G6 (s)	SF(Lo)
5600.00	16.27	107.85	5449.43	24.96	14.20	262.40	151.52	101.26	3.01	Goetzel 12N-30A-M (p)	
5700.00	16.27	107.85	5545.43	25.56	14.49	353.55	402.64	222.95	2.24	Goetzel 29- 10G6 (s)	SF(Lo)
5700.00	16.27	107.85	5545.43	25.56	14.49	262.89	154.89	103.38	3.01	Goetzel 12N-30A-M (p)	
5800.00	16.27	107.85	5641.42	26.16	14.79	353.07	374.80	191.85	2.05	Goetzel 29- 10G6 (s)	SF(Lo)
5800.00	16.27	107.85	5641.42	26.16	14.79	263.36	158.27	105.51	3.00	Goetzel 12N-30A-M (p)	
5900.00	16.27	107.85	5737.41	26.76	15.08	352.51	346.98	160.77	1.86	Goetzel 29- 10G6 (s)	SF(Lo)
5900.00	16.27	107.85	5737.41	26.76	15.08	263.80	161.66	107.66	2.99	Goetzel 12N-30A-M (p)	
6000.00	16.27	107.85	5833.41	27.36	15.38	351.86	319.20	129.71	1.68	Goetzel 29- 10G6 (s)	SF(Lo)
6000.00	16.27	107.85	5833.41	27.36	15.38	264.23	165.05	109.82	2.99	Goetzel 12N-30A-M (p)	
6100.00	16.27	107.85	5929.40	27.96	15.67	351.08	291.46	98.68	1.51	Goetzel 29- 10G6 (s)	SF(Lo)
6100.00	16.27	107.85	5929.40	27.96	15.67	264.58	168.41	111.95	2.98	Goetzel 12N-30A-M (p)	
6200.00	16.27	107.85	6025.39	28.56	15.97	350.14	263.78	67.74	1.35	Goetzel 29- 10G6 (s)	SF(Med)
6200.00	16.27	107.85	6025.39	28.56	15.97	261.65	169.41	112.22	2.96	Goetzel 12N-30A-M (p)	
6300.00	10.61	121.22	6122.39	29.02	16.23	335.44	240.48	41.24	1.21	Goetzel 29- 10G6 (s)	SF(Med)
6300.00	10.61	121.22	6122.39	29.02	16.23	242.39	169.47	112.33	2.97	Goetzel 12N-30A-M (p)	
6400.00	6.16	169.93	6221.41	29.14	16.21	284.81	230.66	28.38	1.14	Goetzel 29- 10G6 (s)	SF(Med)
6400.00	6.16	169.93	6221.41	29.14	16.21	187.80	171.70	115.35	3.05	Goetzel 12N-30A-M (p)	
6500.00	9.53	226.60	6320.59	29.03	15.93	225.84	235.08	28.59	1.14	Goetzel 29- 10G6 (s)	SF(Med)

5D Anti-Collision Report

Primary Well: Goetzel 12N-30B-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Nearest Well	Risk
6500.00	9.53	226.60	6320.59	29.03	15.93	125.52	176.06	121.13	3.21	Goetzel 12N-30A-M (p)	
6600.00	16.47	245.03	6418.01	28.73	15.38	205.13	253.85	43.73	1.21	Goetzel 29- 10G6 (s)	SF(Med)
6600.00	16.47	245.03	6418.01	28.73	15.38	101.95	182.21	128.99	3.42	Goetzel 12N-30A-M (p)	
6700.00	24.06	252.41	6511.77	28.31	14.57	195.81	286.58	73.33	1.34	Goetzel 29- 10G6 (s)	SF(Med)
6700.00	24.06	252.41	6511.77	28.31	14.57	90.03	189.70	138.23	3.69	Goetzel 12N-30A-M (p)	
6800.00	31.85	256.36	6600.03	27.83	13.55	190.36	332.48	116.58	1.54	Goetzel 29- 10G6 (s)	SF(Lo)
6800.00	31.85	256.36	6600.03	27.83	13.55	82.21	198.00	148.26	3.98	Goetzel 12N-30A-M (p)	
6900.00	39.72	258.88	6681.10	27.35	12.38	186.74	390.48	171.71	1.78	Goetzel 29- 10G6 (s)	SF(Lo)
6900.00	39.72	258.88	6681.10	27.35	12.38	76.48	206.64	158.17	4.26	Goetzel 12N-30A-M (p)	
7000.00	47.62	260.68	6753.38	26.94	11.16	184.09	459.30	238.11	2.08	Goetzel 29- 10G6 (s)	SF(Lo)
7000.00	47.62	260.68	6753.38	26.94	11.16	72.13	215.14	167.59	4.52	Goetzel 12N-30A-M (p)	
7100.00	55.54	262.08	6815.47	26.70	10.04	181.89	537.54	314.38	2.41	Goetzel 29- 10G6 (s)	SF(Lo)
7100.00	55.54	262.08	6815.47	26.70	10.04	68.80	223.13	175.97	4.73	Goetzel 12N-30A-M (p)	
7200.00	63.48	263.23	6866.17	26.68	9.24	179.67	623.64	398.96	2.78	Goetzel 29- 10G6 (s)	
7200.00	63.48	263.23	6866.17	26.68	9.24	66.29	230.28	182.94	4.86	Goetzel 12N-30A-M (p)	
7300.00	71.43	264.23	6904.48	26.93	8.96	59.19	658.68	434.96	2.94	Goetzel 2- 29 (s)	
7300.00	71.43	264.23	6904.48	26.93	8.96	64.48	236.34	188.28	4.92	Goetzel 12N-30A-M (p)	
7400.00	79.38	265.15	6929.66	27.45	9.34	73.36	574.77	349.70	2.55	Goetzel 2- 29 (s)	
7400.00	79.38	265.15	6929.66	27.45	9.34	63.28	241.11	191.71	4.88	Goetzel 12N-30A-M (p)	
7500.00	87.33	266.01	6941.22	28.23	10.33	86.44	492.60	265.71	2.17	Goetzel 2- 29 (s)	SF(Lo)
7500.00	87.33	266.01	6941.22	28.23	10.33	62.64	244.45	193.26	4.78	Goetzel 12N-30A-M (p)	
7600.00	90.00	266.30	6942.00	29.20	11.08	90.00	416.56	187.16	1.82	Goetzel 2- 29 (s)	SF(Lo)
7600.00	90.00	266.30	6942.00	29.20	11.08	62.67	246.18	193.03	4.63	Goetzel 12N-30A-M (p)	
7700.00	90.00	266.30	6942.00	30.38	11.57	90.00	352.61	119.76	1.51	Goetzel 2- 29 (s)	SF(Lo)
7700.00	90.00	266.30	6942.00	30.38	11.57	62.85	247.65	192.30	4.47	Goetzel 12N-30A-M (p)	
7800.00	90.00	266.30	6942.00	31.75	12.08	90.00	308.45	71.06	1.30	Goetzel 2- 29 (s)	SF(Med)
7800.00	90.00	266.30	6942.00	31.75	12.08	63.02	249.12	191.24	4.30	Goetzel 12N-30A-M (p)	
7900.00	90.00	266.30	6942.00	33.31	12.62	90.00	293.18	52.15	1.22	Goetzel 2- 29 (s)	SF(Med)
7900.00	90.00	266.30	6942.00	33.31	12.62	63.19	250.59	189.87	4.13	Goetzel 12N-30A-M (p)	

5D Anti-Collision Report

Primary Well: Goetzel 12N-30B-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Nearest Well	Risk
8000.00	90.00	266.30	6942.00	35.02	13.17	90.00	311.07	69.22	1.29	Goetzel 2- 29 (s)	SF(Med)
8000.00	90.00	266.30	6942.00	35.02	13.17	63.36	252.06	188.18	3.95	Goetzel 12N-30A-M (p)	
8100.00	90.00	266.30	6942.00	36.86	13.75	90.00	357.18	116.13	1.48	Goetzel 2- 29 (s)	SF(Med)
8100.00	90.00	266.30	6942.00	36.86	13.75	63.53	253.54	186.23	3.77	Goetzel 12N-30A-M (p)	
8200.00	90.00	266.30	6942.00	38.82	14.33	90.00	422.36	183.43	1.77	Goetzel 2- 29 (s)	SF(Lo)
8200.00	90.00	266.30	6942.00	38.82	14.33	63.69	255.01	184.04	3.59	Goetzel 12N-30A-M (p)	
8300.00	90.00	266.30	6942.00	40.87	14.94	90.00	499.20	261.90	2.10	Goetzel 2- 29 (s)	SF(Lo)
8300.00	90.00	266.30	6942.00	40.87	14.94	63.86	256.49	181.70	3.43	Goetzel 12N-30A-M (p)	
8400.00	90.00	266.30	6942.00	43.01	15.55	90.00	583.11	347.94	2.48	Goetzel 2- 29 (s)	SF(Lo)
8400.00	90.00	266.30	6942.00	43.01	15.55	64.02	257.98	179.21	3.28	Goetzel 12N-30A-M (p)	
8500.00	90.00	266.30	6942.00	45.22	16.17	90.00	671.44	437.09	2.87	Goetzel 2- 29 (s)	
8500.00	90.00	266.30	6942.00	45.22	16.17	64.18	259.46	176.61	3.13	Goetzel 12N-30A-M (p)	
8600.00	90.00	266.30	6942.00	47.49	16.81	64.34	260.94	173.90	3.00	Goetzel 12N-30A-M (p)	
8700.00	90.00	266.30	6942.00	49.81	17.45	64.49	262.43	171.09	2.87	Goetzel 12N-30A-M (p)	
8800.00	90.00	266.30	6942.00	52.18	18.09	64.65	263.92	168.15	2.76	Goetzel 12N-30A-M (p)	
8800.00	90.00	266.30	6942.00	52.18	18.09	234.01	263.78	178.00	3.07	Goetzel 33C-30-M (p)	
8900.00	90.00	266.30	6942.00	54.59	18.75	64.80	265.41	165.14	2.65	Goetzel 12N-30A-M (p)	
8900.00	90.00	266.30	6942.00	54.59	18.75	233.93	263.25	173.59	2.94	Goetzel 33C-30-M (p)	
9000.00	90.00	266.30	6942.00	57.04	19.41	64.95	266.91	162.03	2.55	Goetzel 12N-30A-M (p)	
9000.00	90.00	266.30	6942.00	57.04	19.41	233.84	262.71	169.14	2.81	Goetzel 33C-30-M (p)	
9100.00	90.00	266.30	6942.00	59.51	20.07	65.10	268.40	158.83	2.45	Goetzel 12N-30A-M (p)	SF(Lo)
9100.00	90.00	266.30	6942.00	59.51	20.07	233.76	262.17	164.67	2.69	Goetzel 33C-30-M (p)	
9200.00	90.00	266.30	6942.00	62.02	20.74	90.00	578.53	318.91	2.23	Tollgate Farms 29- 12G6 (s)	SF(Lo)
9200.00	90.00	266.30	6942.00	62.02	20.74	233.67	261.63	160.17	2.58	Goetzel 33C-30-M (p)	
9300.00	90.00	266.30	6942.00	64.55	21.42	90.00	525.20	259.26	1.97	Tollgate Farms 29- 12G6 (s)	SF(Lo)
9300.00	90.00	266.30	6942.00	64.55	21.42	233.58	261.10	155.66	2.48	Goetzel 33C-30-M (p)	SF(Lo)
9400.00	90.00	266.30	6942.00	67.10	22.09	90.00	486.80	214.35	1.79	Tollgate Farms 29- 12G6 (s)	SF(Lo)

5D Anti-Collision Report

Primary Well: Goetzel 12N-30B-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Nearest Well	Risk
9400.00	90.00	266.30	6942.00	67.10	22.09	233.50	260.56	151.13	2.38	Goetzel 33C-30-M (p)	SF(Lo)
9500.00	90.00	266.30	6942.00	69.66	22.77	90.00	467.03	189.60	1.68	Tollgate Farms 29- 12G6 (s)	SF(Lo)
9500.00	90.00	266.30	6942.00	69.66	22.77	233.41	260.03	146.57	2.29	Goetzel 33C-30-M (p)	SF(Lo)
9600.00	90.00	266.30	6942.00	72.25	23.46	90.00	468.24	189.09	1.68	Tollgate Farms 29- 12G6 (s)	SF(Lo)
9600.00	90.00	266.30	6942.00	72.25	23.46	233.32	259.49	141.94	2.21	Goetzel 33C-30-M (p)	SF(Lo)
9700.00	90.00	266.30	6942.00	74.85	24.15	90.00	490.30	212.72	1.77	Tollgate Farms 29- 12G6 (s)	SF(Lo)
9700.00	90.00	266.30	6942.00	74.85	24.15	233.23	258.96	137.31	2.13	Goetzel 33C-30-M (p)	SF(Lo)
9800.00	90.00	266.30	6942.00	77.46	24.83	90.00	530.59	256.16	1.93	Tollgate Farms 29- 12G6 (s)	SF(Lo)
9800.00	90.00	266.30	6942.00	77.46	24.83	233.14	258.43	132.67	2.05	Goetzel 33C-30-M (p)	SF(Lo)
9900.00	90.00	266.30	6942.00	80.09	25.53	66.23	280.42	131.84	1.89	Goetzel 12N-30A-M (p)	SF(Lo)
9900.00	90.00	266.30	6942.00	80.09	25.53	233.06	257.89	128.00	1.99	Goetzel 33C-30-M (p)	SF(Lo)
10000.00	90.00	266.30	6942.00	82.73	26.22	66.37	281.93	128.34	1.84	Goetzel 12N-30A-M (p)	SF(Lo)
10000.00	90.00	266.30	6942.00	82.73	26.22	232.97	257.36	123.27	1.92	Goetzel 33C-30-M (p)	SF(Lo)
10100.00	90.00	266.30	6942.00	85.37	26.92	66.50	283.45	124.82	1.79	Goetzel 12N-30A-M (p)	SF(Lo)
10100.00	90.00	266.30	6942.00	85.37	26.92	232.88	256.83	118.53	1.86	Goetzel 33C-30-M (p)	SF(Lo)
10200.00	90.00	266.30	6942.00	88.03	27.62	66.63	284.96	121.27	1.74	Goetzel 12N-30A-M (p)	SF(Lo)
10200.00	90.00	266.30	6942.00	88.03	27.62	232.79	256.30	113.80	1.80	Goetzel 33C-30-M (p)	SF(Lo)
10300.00	90.00	266.30	6942.00	90.69	28.32	66.77	286.47	117.71	1.70	Goetzel 12N-30A-M (p)	SF(Lo)
10300.00	90.00	266.30	6942.00	90.69	28.32	232.70	255.77	109.07	1.74	Goetzel 33C-30-M (p)	SF(Lo)
10400.00	90.00	266.30	6942.00	93.37	29.02	66.89	287.99	114.13	1.66	Goetzel 12N-30A-M (p)	SF(Lo)
10400.00	90.00	266.30	6942.00	93.37	29.02	232.61	255.24	104.34	1.69	Goetzel 33C-30-M (p)	SF(Lo)
10500.00	90.00	266.30	6942.00	96.05	29.72	67.02	289.51	110.53	1.62	Goetzel 12N-30A-M (p)	SF(Lo)
10500.00	90.00	266.30	6942.00	96.05	29.72	232.52	254.71	99.61	1.64	Goetzel 33C-30-M (p)	SF(Lo)
10600.00	90.00	266.30	6942.00	98.73	30.42	67.15	291.03	106.92	1.58	Goetzel 12N-30A-M (p)	SF(Lo)
10600.00	90.00	266.30	6942.00	98.73	30.42	232.42	254.18	94.89	1.60	Goetzel 33C-30-M (p)	SF(Lo)
10700.00	90.00	266.30	6942.00	101.43	31.13	67.28	292.55	103.29	1.55		SF(Lo)

5D Anti-Collision Report

Primary Well: Goetzel 12N-30B-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Nearest Well	Risk
10700.00	90.00	266.30	6942.00	101.43	31.13	232.33	253.65	90.17	1.55	Goetzel 12N-30A-M (p)	SF(Lo)
10800.00	90.00	266.30	6942.00	104.12	31.84	232.24	253.13	85.45	1.51	Goetzel 33C-30-M (p)	SF(Lo)
10900.00	90.00	266.30	6942.00	106.83	32.55	232.15	252.60	80.74	1.47	Goetzel 33C-30-M (p)	SF(Med)
11000.00	90.00	266.30	6942.00	109.53	33.25	232.06	252.08	76.03	1.43	Goetzel 33C-30-M (p)	SF(Med)
11100.00	90.00	266.30	6942.00	112.24	33.96	231.96	251.55	71.33	1.40	Goetzel 33C-30-M (p)	SF(Med)
11200.00	90.00	266.30	6942.00	114.96	34.68	231.87	251.03	66.64	1.36	Goetzel 33C-30-M (p)	SF(Med)
11300.00	90.00	266.30	6942.00	117.68	35.39	231.77	250.50	61.95	1.33	Goetzel 33C-30-M (p)	SF(Med)
11400.00	90.00	266.30	6942.00	120.40	36.10	231.68	249.98	57.28	1.30	Goetzel 33C-30-M (p)	SF(Med)
11500.00	90.00	266.30	6942.00	123.13	36.82	231.58	249.46	52.60	1.27	Goetzel 33C-30-M (p)	SF(Med)
11600.00	90.00	266.30	6942.00	125.86	37.53	231.49	248.94	47.94	1.24	Goetzel 33C-30-M (p)	SF(Med)
11700.00	90.00	266.30	6942.00	128.59	38.25	231.39	248.42	43.29	1.21	Goetzel 33C-30-M (p)	SF(Med)
11800.00	90.00	266.30	6942.00	131.32	38.96	231.30	247.90	38.64	1.18	Goetzel 33C-30-M (p)	SF(Med)
11900.00	90.00	266.30	6942.00	134.06	39.68	231.20	247.38	34.01	1.16	Goetzel 33C-30-M (p)	SF(Med)
12000.00	90.00	266.30	6942.00	136.80	40.39	231.10	246.86	29.38	1.14	Goetzel 33C-30-M (p)	SF(Med)
12100.00	90.00	266.30	6942.00	139.54	41.11	231.01	246.34	24.77	1.11	Goetzel 33C-30-M (p)	SF(Med)
12200.00	90.00	266.30	6942.00	142.29	41.83	230.91	245.82	20.16	1.09	Goetzel 33C-30-M (p)	SF(Med)
12300.00	90.00	266.30	6942.00	145.03	42.55	230.81	245.31	15.57	1.07	Goetzel 33C-30-M (p)	SF(Med)
12400.00	90.00	266.30	6942.00	147.78	43.27	230.71	244.79	10.99	1.05	Goetzel 33C-30-M (p)	SF(Med)
12500.00	90.00	266.30	6942.00	150.53	43.99	230.61	244.27	6.41	1.03	Goetzel 33C-30-M (p)	SF(Med)
12600.00	90.00	266.30	6942.00	153.28	44.71	230.51	243.76	1.85	1.01	Goetzel 33C-30-M (p)	SF(Med)
12700.00	90.00	266.30	6942.00	156.03	45.43	230.42	243.25	-2.70	0.99	Goetzel 33C-30-M (p)	SF(Hi)
12800.00	90.00	266.30	6942.00	158.79	46.15	230.31	242.73	-7.23	0.97	Goetzel 33C-30-M (p)	SF(Hi)
12900.00	90.00	266.30	6942.00	161.54	46.87	230.21	242.22	-11.76	0.95	Goetzel 33C-30-M (p)	SF(Hi)
13000.00	90.00	266.30	6942.00	164.30	47.59	230.11	241.71	-16.27	0.94	Goetzel 33C-30-M (p)	SF(Hi)
13100.00	90.00	266.30	6942.00	167.06	48.32	230.01	241.20	-20.77	0.92		SF(Hi)

5D Anti-Collision Report

Primary Well: Goetzel 12N-30B-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Nearest Well	Risk
13200.00	90.00	266.30	6942.00	169.82	49.04	229.91	240.69	-25.26	0.91	Goetzel 33C-30-M (p)	SF(Hi)
13300.00	90.00	266.30	6942.00	172.58	49.76	229.81	240.18	-29.73	0.89	Goetzel 33C-30-M (p)	SF(Hi)
13400.00	90.00	266.30	6942.00	175.34	50.48	229.70	239.67	-34.19	0.88	Goetzel 33C-30-M (p)	SF(Hi)
13500.00	90.00	266.30	6942.00	178.11	51.21	229.60	239.16	-38.63	0.86	Goetzel 33C-30-M (p)	SF(Hi)
13600.00	90.00	266.30	6942.00	180.87	51.93	229.50	238.66	-43.07	0.85	Goetzel 33C-30-M (p)	SF(Hi)
13700.00	90.00	266.30	6942.00	183.64	52.65	229.39	238.15	-47.48	0.83	Goetzel 33C-30-M (p)	SF(Hi)
13800.00	90.00	266.30	6942.00	186.40	53.38	229.29	237.65	-51.89	0.82	Goetzel 33C-30-M (p)	SF(Hi)
13900.00	90.00	266.30	6942.00	189.17	54.10	229.18	237.14	-56.28	0.81	Goetzel 33C-30-M (p)	SF(Hi)
14000.00	90.00	266.30	6942.00	191.94	54.83	229.08	236.64	-60.65	0.80	Goetzel 33C-30-M (p)	SF(Hi)
14100.00	90.00	266.30	6942.00	194.70	55.55	228.97	236.14	-65.01	0.78	Goetzel 33C-30-M (p)	SF(Hi)
14200.00	90.00	266.30	6942.00	197.47	56.28	228.87	235.63	-69.36	0.77	Goetzel 33C-30-M (p)	SF(Hi)
14300.00	90.00	266.30	6942.00	200.24	57.00	228.76	235.13	-73.69	0.76	Goetzel 33C-30-M (p)	SF(Hi)
14400.00	90.00	266.30	6942.00	203.01	57.73	228.65	234.63	-78.00	0.75	Goetzel 33C-30-M (p)	SF(Hi)
14500.00	90.00	266.30	6942.00	205.79	58.45	228.55	234.13	-82.30	0.74	Goetzel 33C-30-M (p)	SF(Hi)
14600.00	90.00	266.30	6942.00	208.56	59.18	228.44	233.63	-86.58	0.73	Goetzel 33C-30-M (p)	SF(Hi)
14700.00	90.00	266.30	6942.00	211.33	59.91	228.33	233.14	-90.84	0.72	Goetzel 33C-30-M (p)	SF(Hi)
14800.00	90.00	266.30	6942.00	214.10	60.63	228.22	232.64	-95.09	0.71	Goetzel 33C-30-M (p)	SF(Hi)
14900.00	90.00	266.30	6942.00	216.88	61.36	90.00	251.89	-113.83	0.69	Etter 30-32 (s)	SF(Hi)
14900.00	90.00	266.30	6942.00	216.88	61.36	228.11	232.14	-99.33	0.70	Goetzel 33C-30-M (p)	SF(Hi)
15000.00	90.00	266.30	6942.00	219.65	62.09	90.00	195.40	-216.25	0.47	Etter 30-32 (s)	SF(Hi)
15100.00	90.00	266.30	6942.00	222.43	62.81	90.00	181.43	-246.47	0.42	Etter 30-32 (s)	SF(Hi)
15200.00	90.00	266.30	6942.00	225.20	63.54	90.00	218.29	-173.44	0.56	Etter 30-32 (s)	SF(Hi)
15300.00	90.00	266.30	6942.00	227.98	64.27	274.40	300.03	-155.23	0.66	Goetzel 33N-30B-M (p)	SF(Hi)
15300.00	90.00	266.30	6942.00	227.98	64.27	227.67	230.17	-116.09	0.66	Goetzel 33C-30-M (p)	SF(Hi)
15400.00	90.00	266.30	6942.00	230.75	64.99	274.44	297.34	-163.44	0.65	Goetzel 33N-30B-M (p)	SF(Hi)
15400.00	90.00	266.30	6942.00	230.75	64.99	227.56	229.67	-120.24	0.66		SF(Hi)

5D Anti-Collision Report

Primary Well: Goetzel 12N-30B-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Nearest Well	Risk
15440.87	90.00	266.30	6942.00	231.89	65.29	274.45	296.23	-166.80	0.64	Goetzel 33C-30-M (p)	SF(Hi)
15440.87	90.00	266.30	6942.00	231.89	65.29	227.51	229.47	-121.93	0.65	Goetzel 33N-30B-M (p)	SF(Hi)
Secondary Well: Goetzel 2-29 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	28.00	0.00	0.00	151.63	296.11	295.34	384.68	
100.00	72.00	0.00	0.00	100.00	1.09	1.09	151.63	294.78	292.81	149.49	
200.00	172.00	0.00	0.00	200.00	2.69	2.69	151.63	294.78	290.99	77.69	
300.00	272.00	0.00	0.00	300.00	5.73	5.73	151.63	294.78	287.73	41.79	
400.00	372.00	0.00	0.00	400.00	8.77	8.77	151.63	294.78	284.47	28.58	
500.00	472.00	0.00	0.00	500.00	11.80	11.80	151.63	294.78	281.38	21.99	
600.00	572.00	0.00	0.00	600.00	14.84	14.84	151.63	294.78	278.12	17.69	
700.00	672.00	0.00	0.00	700.00	17.88	17.88	151.63	294.78	274.86	14.80	
800.00	772.00	0.00	0.00	800.00	20.91	20.91	151.63	294.78	271.60	12.71	
900.00	872.00	0.00	0.00	900.00	23.95	23.95	151.63	294.78	268.34	11.15	
1000.00	972.00	0.00	0.00	1000.00	26.99	26.99	151.63	294.78	265.08	9.92	
1100.00	1072.00	0.00	0.00	1100.00	30.02	30.02	151.63	294.78	261.82	8.94	
1200.00	1172.00	0.00	0.00	1200.00	33.06	33.06	151.63	294.78	258.56	8.14	
1300.00	1272.00	0.00	0.00	1300.00	36.10	36.10	151.63	294.78	255.30	7.47	
1400.00	1371.98	0.00	0.00	1399.98	39.13	39.13	44.04	293.53	250.82	6.87	
1500.00	1471.84	0.00	0.00	1499.84	42.17	42.17	44.81	289.79	243.87	6.31	
1600.00	1571.45	0.00	0.00	1599.45	45.19	45.19	46.13	283.66	234.58	5.78	
1700.00	1670.70	0.00	0.00	1698.70	48.21	48.21	48.08	275.33	223.05	5.27	
1800.00	1769.47	0.00	0.00	1797.47	51.21	51.21	50.74	265.08	209.44	4.76	
1900.00	1867.62	0.00	0.00	1895.62	54.19	54.19	54.23	253.32	194.43	4.30	
2000.00	1965.06	0.00	0.00	1993.06	57.15	57.15	58.72	240.66	178.61	3.88	
2100.00	2061.64	0.00	0.00	2089.64	60.08	60.08	64.36	227.98	162.49	3.48	
2200.00	2157.65	0.00	0.00	2185.65	62.99	62.99	70.83	216.93	148.06	3.15	
2300.00	2253.64	0.00	0.00	2281.64	65.91	65.91	77.83	209.05	136.95	2.90	
2400.00	2349.63	0.00	0.00	2377.63	68.82	68.82	85.21	204.74	129.07	2.71	
2500.00	2445.63	0.00	0.00	2473.63	71.74	71.74	92.75	204.22	125.01	2.58	
2600.00	2541.62	0.00	0.00	2569.62	74.66	74.66	100.20	207.52	124.93	2.51	
2700.00	2637.61	0.00	0.00	2665.61	77.57	77.57	107.32	214.46	128.70	2.50	
2800.00	2733.61	0.00	0.00	2761.61	80.49	80.49	113.93	224.70	135.54	2.52	
2900.00	2829.60	0.00	0.00	2857.60	83.40	83.40	119.92	237.82	145.37	2.57	
3000.00	2925.60	0.00	0.00	2953.60	86.32	86.32	125.28	253.37	157.96	2.66	
3100.00	3021.59	0.00	0.00	3049.59	89.23	89.23	130.01	270.93	172.14	2.74	
3200.00	3117.58	0.00	0.00	3145.58	92.15	92.15	134.16	290.15	188.37	2.85	
3300.00	3213.58	0.00	0.00	3241.58	95.06	95.06	137.81	310.70	205.81	2.96	
3400.00	3309.57	0.00	0.00	3337.57	97.98	97.98	141.00	332.35	224.18	3.07	
3500.00	3405.56	0.00	0.00	3433.56	100.89	100.89	143.81	354.89	243.73	3.19	
3600.00	3501.56	0.00	0.00	3529.56	103.81	103.81	146.29	378.16	264.15	3.32	
3700.00	3597.55	0.00	0.00	3625.55	106.72	106.72	148.48	402.04	284.67	3.43	
3800.00	3693.54	0.00	0.00	3721.54	109.64	109.64	150.43	426.43	305.81	3.54	
3900.00	3789.54	0.00	0.00	3817.54	112.55	112.55	152.17	451.24	327.49	3.65	
4000.00	3885.53	0.00	0.00	3913.53	115.47	115.47	153.73	476.40	349.62	3.76	
4100.00	3981.53	0.00	0.00	4009.53	118.38	118.38	155.14	501.87	372.12	3.87	
4200.00	4077.52	0.00	0.00	4105.52	121.30	121.30	156.41	527.59	394.89	3.98	
4300.00	4173.51	0.00	0.00	4201.51	124.21	124.21	157.56	553.54	417.54	4.07	
4400.00	4269.51	0.00	0.00	4297.51	127.13	127.13	158.62	579.68	440.40	4.16	
4500.00	4365.50	0.00	0.00	4393.50	130.04	130.04	159.58	605.99	463.46	4.25	
4600.00	4461.49	0.00	0.00	4489.49	132.96	132.96	160.46	632.45	486.71	4.34	

5D Anti-Collision Report

Secondary Well: Goetzel 2-29 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
4700.00	4557.49	0.00	0.00	4585.49	135.87	135.87	161.27	659.04	510.11	4.43	
4800.00	4653.48	0.00	0.00	4681.48	138.79	138.79	162.02	685.74	533.65	4.51	
4900.00	4749.48	0.00	0.00	4777.48	141.70	141.70	162.71	712.54	557.32	4.59	
5000.00	4845.47	0.00	0.00	4873.47	144.62	144.62	163.36	739.43	581.09	4.67	
5100.00	4941.46	0.00	0.00	4969.46	147.54	147.54	163.95	766.40	604.96	4.75	
5200.00	5037.46	0.00	0.00	5065.46	150.45	150.45	164.51	793.45	628.91	4.82	
5300.00	5133.45	0.00	0.00	5161.45	153.37	153.37	165.03	820.56	652.94	4.90	
5400.00	5229.44	0.00	0.00	5257.44	156.28	156.28	165.52	847.73	677.03	4.97	
5500.00	5325.44	0.00	0.00	5353.44	159.20	159.20	165.98	874.96	701.19	5.04	
5600.00	5421.43	0.00	0.00	5449.43	162.11	162.11	166.41	902.23	725.37	5.10	
5700.00	5517.43	0.00	0.00	5545.43	165.03	165.03	166.81	929.55	749.52	5.16	
5800.00	5613.42	0.00	0.00	5641.42	167.94	167.94	167.20	956.91	773.61	5.22	
5900.00	5709.41	0.00	0.00	5737.41	170.86	170.86	167.56	984.30	797.75	5.28	
6000.00	5805.41	0.00	0.00	5833.41	173.77	173.77	167.90	1011.73	821.93	5.33	
6100.00	5901.40	0.00	0.00	5929.40	176.69	176.69	168.22	1039.19	846.15	5.38	
6200.00	5997.39	0.00	0.00	6025.39	179.60	179.60	168.53	1066.68	870.41	5.43	
6300.00	6094.39	0.00	0.00	6122.39	182.55	182.55	155.56	1089.91	890.41	5.46	
6400.00	6193.41	0.00	0.00	6221.41	185.56	185.56	107.59	1099.96	897.23	5.43	
6500.00	6292.59	0.00	0.00	6320.59	188.57	188.57	52.01	1096.44	890.53	5.32	
6600.00	6390.01	0.00	0.00	6418.01	191.53	191.53	35.07	1079.50	870.54	5.17	
6700.00	6483.77	0.00	0.00	6511.77	194.37	194.37	29.69	1049.60	837.79	4.96	
6800.00	6572.03	0.00	0.00	6600.03	197.05	197.05	28.42	1007.46	793.08	4.70	
6900.00	6653.10	0.00	0.00	6681.10	199.52	199.52	29.54	954.09	737.51	4.41	
7000.00	6725.38	0.00	0.00	6753.38	201.71	201.71	32.77	890.79	672.39	4.08	
7100.00	6787.47	0.00	0.00	6815.47	203.60	203.60	38.43	819.14	598.80	3.72	
7200.00	6838.17	0.00	0.00	6866.17	205.14	205.14	47.13	741.02	518.64	3.33	
7300.00	6876.48	0.00	0.00	6904.48	206.30	206.30	59.19	658.68	434.96	2.94	
7400.00	6901.66	0.00	0.00	6929.66	207.06	207.06	73.36	574.77	349.70	2.55	
7500.00	6913.22	0.00	0.00	6941.22	207.41	207.41	86.44	492.60	265.71	2.17	SF(Lo)
7600.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	416.56	187.16	1.82	SF(Lo)
7700.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	352.61	119.76	1.51	SF(Lo)
7800.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	308.45	71.06	1.30	SF(Med)
7900.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	293.18	52.15	1.22	SF(Med)
8000.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	311.07	69.22	1.29	SF(Med)
8100.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	357.18	116.13	1.48	SF(Med)
8200.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	422.36	183.43	1.77	SF(Lo)
8300.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	499.20	261.90	2.10	SF(Lo)
8400.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	583.11	347.94	2.48	SF(Lo)
8500.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	671.44	437.09	2.87	
8600.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	762.65	529.67	3.27	
8700.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	855.83	623.65	3.69	
8800.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	950.40	718.58	4.10	
8900.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	1045.98	814.63	4.52	
9000.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	1142.32	911.38	4.95	
9100.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	1239.23	1008.78	5.38	
9200.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	1336.60	1106.67	5.81	
9300.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	1434.34	1204.93	6.25	
9400.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	1532.36	1303.24	6.69	
9500.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	1630.63	1401.48	7.12	
9600.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	1729.09	1499.96	7.55	
9700.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	1827.72	1598.64	7.98	
9800.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	1926.49	1697.48	8.41	
9900.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	2025.39	1796.45	8.85	
10000.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	2124.38	1895.54	9.28	
10100.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	2223.47	1994.66	9.72	
10200.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	2322.63	2093.86	10.15	
10300.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	2421.87	2193.13	10.59	
10400.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	2521.16	2292.47	11.02	

5D Anti-Collision Report

Secondary Well: Goetzel 2-29 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
10500.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	2620.51	2391.87	11.46	
10600.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	2719.90	2491.32	11.90	
10700.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	2819.34	2590.81	12.34	
10800.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	2918.82	2690.33	12.77	
10900.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	3018.33	2789.89	13.21	
11000.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	3117.87	2889.48	13.65	
11100.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	3217.44	2989.10	14.09	
11200.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	3317.04	3088.74	14.53	
11300.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	3416.66	3188.41	14.97	
11400.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	3516.30	3288.09	15.41	
11500.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	3615.96	3387.79	15.85	
11600.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	3715.64	3487.48	16.29	
11700.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	3815.34	3587.19	16.72	
11800.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	3915.05	3686.91	17.16	
11900.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	4014.78	3786.64	17.60	
12000.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	4114.52	3886.39	18.04	
12100.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	4214.27	3986.15	18.47	
12200.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	4314.03	4085.92	18.91	
12300.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	4413.80	4185.70	19.35	
12400.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	4513.59	4285.49	19.79	
12500.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	4613.38	4385.28	20.23	
12600.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	4713.18	4485.09	20.66	
12700.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	4812.99	4584.90	21.10	
12800.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	4912.81	4684.71	21.54	
12900.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	5012.64	4784.53	21.98	
13000.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	5112.47	4884.36	22.41	
13100.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	5212.31	4984.19	22.85	
13200.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	5312.15	5084.03	23.29	
13300.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	5412.00	5183.87	23.72	
13400.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	5511.86	5283.71	24.16	
13500.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	5611.72	5383.56	24.60	
13600.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	5711.59	5483.42	25.03	
13700.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	5811.46	5583.27	25.47	
13800.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	5911.33	5683.13	25.90	
13900.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	6011.21	5783.00	26.34	
14000.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	6111.09	5882.86	26.78	
14100.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	6210.98	5982.73	27.21	
14200.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	6310.87	6082.60	27.65	
14300.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	6410.76	6182.47	28.08	
14400.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	6510.66	6282.35	28.52	
14500.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	6610.56	6382.23	28.95	
14600.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	6710.46	6482.11	29.39	
14700.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	6810.37	6581.99	29.82	
14800.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	6910.28	6681.87	30.25	
14900.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	7010.19	6781.75	30.69	
15000.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	7110.10	6881.64	31.12	
15100.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	7210.02	6981.53	31.55	
15200.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	7309.94	7081.42	31.99	
15300.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	7409.86	7181.31	32.42	
15400.00	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	7509.78	7281.20	32.85	
15440.87	6914.00	0.00	0.00	6942.00	207.44	207.44	90.00	7550.62	7322.03	33.03	
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	262.69	1528.60	1527.94	2314.68	
100.00	73.00	0.00	0.00	100.00	1.11	1.11	262.69	1528.36	1526.49	814.30	
200.00	173.00	0.00	0.00	200.00	2.72	2.72	262.69	1528.36	1524.65	411.61	

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
300.00	273.00	0.00	0.00	300.00	5.76	5.76	262.69	1528.36	1521.39	219.24	
400.00	373.00	0.00	0.00	400.00	8.80	8.80	262.69	1528.36	1518.31	151.97	
500.00	473.00	0.00	0.00	500.00	11.83	11.83	262.69	1528.36	1515.05	114.78	
600.00	573.00	0.00	0.00	600.00	14.87	14.87	262.69	1528.36	1511.79	92.22	
700.00	673.00	0.00	0.00	700.00	17.91	17.91	262.69	1528.36	1508.53	77.07	
800.00	773.00	0.00	0.00	800.00	20.94	20.94	262.69	1528.36	1505.27	66.19	
900.00	873.00	0.00	0.00	900.00	23.98	23.98	262.69	1528.36	1502.02	58.01	
1000.00	973.00	0.00	0.00	1000.00	27.02	27.02	262.69	1528.36	1498.76	51.62	
1100.00	1073.00	0.00	0.00	1100.00	30.05	30.05	262.69	1528.36	1495.50	46.51	
1200.00	1173.00	0.00	0.00	1200.00	33.09	33.09	262.69	1528.36	1492.24	42.31	
1300.00	1273.00	0.00	0.00	1300.00	36.13	36.13	262.69	1528.36	1488.98	38.81	
1400.00	1372.98	0.00	0.00	1399.98	39.16	39.16	154.86	1529.94	1487.34	35.91	
1500.00	1472.84	0.00	0.00	1499.84	42.20	42.20	154.90	1534.68	1488.85	33.49	
1600.00	1572.45	0.00	0.00	1599.45	45.22	45.22	154.97	1542.58	1493.54	31.45	
1700.00	1671.70	0.00	0.00	1698.70	48.24	48.24	155.07	1553.64	1501.39	29.73	
1800.00	1770.47	0.00	0.00	1797.47	51.24	51.24	155.19	1567.87	1512.42	28.28	
1900.00	1868.62	0.00	0.00	1895.62	54.22	54.22	155.33	1585.25	1526.61	27.03	
2000.00	1966.06	0.00	0.00	1993.06	57.18	57.18	155.49	1605.80	1543.98	25.98	
2100.00	2062.64	0.00	0.00	2089.64	60.11	60.11	155.66	1629.50	1564.52	25.08	
2200.00	2158.65	0.00	0.00	2185.65	63.02	63.02	156.03	1655.20	1587.08	24.30	
2300.00	2254.64	0.00	0.00	2281.64	65.94	65.94	156.42	1681.01	1609.72	23.58	
2400.00	2350.63	0.00	0.00	2377.63	68.86	68.86	156.79	1706.89	1632.37	22.91	
2500.00	2446.63	0.00	0.00	2473.63	71.77	71.77	157.15	1732.84	1655.09	22.29	
2600.00	2542.62	0.00	0.00	2569.62	74.69	74.69	157.51	1758.85	1677.87	21.72	
2700.00	2638.61	0.00	0.00	2665.61	77.60	77.60	157.85	1784.92	1700.71	21.20	
2800.00	2734.61	0.00	0.00	2761.61	80.52	80.52	158.18	1811.04	1723.61	20.71	
2900.00	2830.60	0.00	0.00	2857.60	83.43	83.43	158.50	1837.23	1746.56	20.26	
3000.00	2926.60	0.00	0.00	2953.60	86.35	86.35	158.82	1863.47	1769.57	19.85	
3100.00	3022.59	0.00	0.00	3049.59	89.26	89.26	159.12	1889.75	1792.63	19.46	
3200.00	3118.58	0.00	0.00	3145.58	92.18	92.18	159.42	1916.09	1815.73	19.09	
3300.00	3214.58	0.00	0.00	3241.58	95.09	95.09	159.71	1942.48	1838.89	18.75	
3400.00	3310.57	0.00	0.00	3337.57	98.01	98.01	159.99	1968.91	1862.09	18.43	
3500.00	3406.56	0.00	0.00	3433.56	100.92	100.92	160.27	1995.38	1885.34	18.13	
3600.00	3502.56	0.00	0.00	3529.56	103.84	103.84	160.53	2021.90	1908.63	17.85	
3700.00	3598.55	0.00	0.00	3625.55	106.75	106.75	160.79	2048.45	1931.96	17.58	
3800.00	3694.54	0.00	0.00	3721.54	109.67	109.67	161.05	2075.05	1955.33	17.33	
3900.00	3790.54	0.00	0.00	3817.54	112.58	112.58	161.29	2101.68	1978.74	17.10	
4000.00	3886.53	0.00	0.00	3913.53	115.50	115.50	161.53	2128.34	2002.19	16.87	
4100.00	3982.53	0.00	0.00	4009.53	118.41	118.41	161.77	2155.04	2025.68	16.66	
4200.00	4078.52	0.00	0.00	4105.52	121.33	121.33	162.00	2181.78	2049.20	16.46	
4300.00	4174.51	0.00	0.00	4201.51	124.24	124.24	162.22	2208.54	2072.75	16.26	
4400.00	4270.51	0.00	0.00	4297.51	127.16	127.16	162.44	2235.34	2096.34	16.08	
4500.00	4366.50	0.00	0.00	4393.50	130.07	130.07	162.65	2262.17	2119.96	15.91	
4600.00	4462.49	0.00	0.00	4489.49	132.99	132.99	162.86	2289.02	2143.61	15.74	
4700.00	4558.49	0.00	0.00	4585.49	135.90	135.90	163.07	2315.91	2167.29	15.58	
4800.00	4654.48	0.00	0.00	4681.48	138.82	138.82	163.27	2342.82	2191.00	15.43	
4900.00	4750.48	0.00	0.00	4777.48	141.74	141.74	163.46	2369.75	2214.74	15.29	
5000.00	4846.47	0.00	0.00	4873.47	144.65	144.65	163.65	2396.71	2238.51	15.15	
5100.00	4942.46	0.00	0.00	4969.46	147.57	147.57	163.84	2423.70	2262.30	15.02	
5200.00	5038.46	0.00	0.00	5065.46	150.48	150.48	164.02	2450.70	2286.12	14.89	
5300.00	5134.45	0.00	0.00	5161.45	153.40	153.40	164.20	2477.73	2309.96	14.77	
5400.00	5230.44	0.00	0.00	5257.44	156.31	156.31	164.37	2504.79	2333.83	14.65	
5500.00	5326.44	0.00	0.00	5353.44	159.23	159.23	164.54	2531.86	2357.72	14.54	
5600.00	5422.43	0.00	0.00	5449.43	162.14	162.14	164.71	2558.95	2381.63	14.43	
5700.00	5518.43	0.00	0.00	5545.43	165.06	165.06	164.87	2586.07	2405.57	14.33	
5800.00	5614.42	0.00	0.00	5641.42	167.97	167.97	165.03	2613.20	2429.52	14.23	
5900.00	5710.41	0.00	0.00	5737.41	170.89	170.89	165.19	2640.35	2453.50	14.13	
6000.00	5806.41	0.00	0.00	5833.41	173.80	173.80	165.34	2667.52	2477.49	14.04	

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
6100.00	5902.40	0.00	0.00	5929.40	176.72	176.72	165.49	2694.70	2501.51	13.95	
6200.00	5998.39	0.00	0.00	6025.39	179.63	179.63	165.64	2721.91	2525.55	13.86	
6300.00	6095.39	0.00	0.00	6122.39	182.58	182.58	152.57	2744.80	2545.28	13.76	
6400.00	6194.41	0.00	0.00	6221.41	185.59	185.59	104.38	2754.35	2551.70	13.59	
6500.00	6293.59	0.00	0.00	6320.59	188.60	188.60	48.42	2750.14	2544.42	13.37	
6600.00	6391.01	0.00	0.00	6418.01	191.56	191.56	30.92	2732.29	2523.60	13.09	
6700.00	6484.77	0.00	0.00	6511.77	194.40	194.40	24.73	2701.15	2489.55	12.77	
6800.00	6573.03	0.00	0.00	6600.03	197.08	197.08	22.31	2657.36	2443.00	12.40	
6900.00	6654.10	0.00	0.00	6681.10	199.55	199.55	21.78	2601.82	2384.92	12.00	
7000.00	6726.38	0.00	0.00	6753.38	201.74	201.74	22.66	2535.62	2316.45	11.57	
7100.00	6788.47	0.00	0.00	6815.47	203.63	203.63	25.02	2460.08	2238.92	11.12	
7200.00	6839.17	0.00	0.00	6866.17	205.17	205.17	29.45	2376.69	2153.88	10.67	
7300.00	6877.48	0.00	0.00	6904.48	206.33	206.33	37.41	2287.11	2063.03	10.21	
7400.00	6902.66	0.00	0.00	6929.66	207.09	207.09	52.18	2193.10	1968.08	9.75	
7500.00	6914.22	0.00	0.00	6941.22	207.45	207.45	78.69	2096.48	1870.90	9.29	
7600.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	1999.12	1773.28	8.85	
7700.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	1902.01	1675.91	8.41	
7800.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	1805.21	1578.78	7.97	
7900.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	1708.77	1482.07	7.54	
8000.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	1612.78	1385.65	7.10	
8100.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	1517.29	1289.80	6.67	
8200.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	1422.43	1194.24	6.23	
8300.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	1328.33	1098.74	5.79	
8400.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	1235.15	1004.05	5.34	
8500.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	1143.12	910.35	4.91	
8600.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	1052.56	818.10	4.49	
8700.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	963.85	727.51	4.08	
8800.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	877.58	637.75	3.66	
8900.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	794.54	551.00	3.26	
9000.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	715.84	468.05	2.89	
9100.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	643.09	389.84	2.54	
9200.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	578.53	318.91	2.23	SF(Lo)
9300.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	525.20	259.26	1.97	SF(Lo)
9400.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	486.80	214.35	1.79	SF(Lo)
9500.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	467.03	189.60	1.68	SF(Lo)
9600.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	468.24	189.09	1.68	SF(Lo)
9700.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	490.30	212.72	1.77	SF(Lo)
9800.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	530.59	256.16	1.93	SF(Lo)
9900.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	585.38	314.51	2.16	SF(Lo)
10000.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	651.00	383.95	2.44	SF(Lo)
10100.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	724.53	461.95	2.76	
10200.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	803.79	544.54	3.10	
10300.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	887.25	631.81	3.47	
10400.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	973.84	720.49	3.84	
10500.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	1062.78	811.60	4.23	
10600.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	1153.53	904.58	4.63	
10700.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	1245.70	998.89	5.05	
10800.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	1339.00	1093.59	5.46	
10900.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	1433.20	1188.83	5.87	
11000.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	1528.13	1284.69	6.28	
11100.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	1623.68	1381.12	6.69	
11200.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	1719.73	1478.04	7.12	
11300.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	1816.21	1575.34	7.54	
11400.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	1913.04	1672.97	7.97	
11500.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	2010.19	1770.87	8.40	
11600.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	2107.61	1869.00	8.83	
11700.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	2205.26	1967.32	9.27	
11800.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	2303.10	2065.81	9.71	

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
11900.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	2401.13	2164.35	10.14	
12000.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	2499.31	2262.82	10.57	
12100.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	2597.63	2361.37	10.99	
12200.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	2696.08	2460.02	11.42	
12300.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	2794.63	2558.78	11.85	
12400.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	2893.29	2657.64	12.28	
12500.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	2992.03	2756.57	12.71	
12600.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	3090.86	2855.58	13.14	
12700.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	3189.75	2954.65	13.57	
12800.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	3288.72	3053.78	14.00	
12900.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	3387.74	3152.97	14.43	
13000.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	3486.83	3252.20	14.86	
13100.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	3585.96	3351.48	15.29	
13200.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	3685.14	3450.80	15.73	
13300.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	3784.36	3550.14	16.16	
13400.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	3883.62	3649.52	16.59	
13500.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	3982.92	3748.94	17.02	
13600.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	4082.25	3848.38	17.45	
13700.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	4181.62	3947.85	17.89	
13800.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	4281.01	4047.34	18.32	
13900.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	4380.43	4146.86	18.75	
14000.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	4479.88	4246.40	19.19	
14100.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	4579.35	4345.95	19.62	
14200.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	4678.85	4445.51	20.05	
14300.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	4778.36	4545.08	20.48	
14400.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	4877.90	4644.66	20.91	
14500.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	4977.45	4744.27	21.35	
14600.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	5077.02	4843.88	21.78	
14700.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	5176.61	4943.51	22.21	
14800.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	5276.21	5043.16	22.64	
14900.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	5375.83	5142.81	23.07	
15000.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	5475.46	5242.48	23.50	
15100.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	5575.11	5342.15	23.93	
15200.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	5674.77	5441.84	24.36	
15300.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	5774.44	5541.54	24.79	
15400.00	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	5874.12	5641.24	25.22	
15440.87	6915.00	0.00	0.00	6942.00	207.47	207.47	90.00	5914.86	5682.00	25.40	
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	266.67	5650.61	5649.88	7760.77	
100.00	83.00	0.00	0.00	100.00	1.26	1.26	266.67	5650.59	5648.49	2696.71	
200.00	183.00	0.00	0.00	200.00	3.03	3.03	266.67	5650.59	5646.50	1384.21	
300.00	283.00	0.00	0.00	300.00	6.06	6.06	266.67	5650.59	5643.25	770.01	
400.00	383.00	0.00	0.00	400.00	9.10	9.10	266.67	5650.59	5640.16	542.15	
500.00	483.00	0.00	0.00	500.00	12.14	12.14	266.67	5650.59	5636.91	413.09	
600.00	583.00	0.00	0.00	600.00	15.17	15.17	266.67	5650.59	5633.65	333.67	
700.00	683.00	0.00	0.00	700.00	18.21	18.21	266.67	5650.59	5630.40	279.86	
800.00	783.00	0.00	0.00	800.00	21.25	21.25	266.67	5650.59	5627.14	240.99	
900.00	883.00	0.00	0.00	900.00	24.28	24.28	266.67	5650.59	5623.88	211.61	
1000.00	983.00	0.00	0.00	1000.00	27.32	27.32	266.67	5650.59	5620.63	188.61	
1100.00	1083.00	0.00	0.00	1100.00	30.36	30.36	266.67	5650.59	5617.37	170.12	
1200.00	1183.00	0.00	0.00	1200.00	33.40	33.40	266.67	5650.59	5614.12	154.93	
1300.00	1283.00	0.00	0.00	1300.00	36.43	36.43	266.67	5650.59	5610.86	142.23	
1400.00	1382.98	0.00	0.00	1399.98	39.47	39.47	158.81	5652.21	5609.26	131.57	
1500.00	1482.84	0.00	0.00	1499.84	42.50	42.50	158.80	5657.09	5610.91	122.48	
1600.00	1582.45	0.00	0.00	1599.45	45.53	45.53	158.77	5665.22	5615.82	114.67	

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
1700.00	1681.70	0.00	0.00	1698.70	48.54	48.54	158.73	5676.59	5623.97	107.88	
1800.00	1780.47	0.00	0.00	1797.47	51.54	51.54	158.68	5691.19	5635.36	101.93	
1900.00	1878.62	0.00	0.00	1895.62	54.52	54.52	158.62	5709.00	5649.96	96.69	
2000.00	1976.06	0.00	0.00	1993.06	57.48	57.48	158.54	5730.02	5667.77	92.06	
2100.00	2072.64	0.00	0.00	2089.64	60.41	60.41	158.45	5754.21	5688.77	87.94	
2200.00	2168.65	0.00	0.00	2185.65	63.33	63.33	158.53	5780.38	5711.77	84.24	
2300.00	2264.64	0.00	0.00	2281.64	66.24	66.24	158.63	5806.61	5734.81	80.88	
2400.00	2360.63	0.00	0.00	2377.63	69.16	69.16	158.73	5832.85	5757.86	77.78	
2500.00	2456.63	0.00	0.00	2473.63	72.07	72.07	158.83	5859.10	5780.91	74.93	
2600.00	2552.62	0.00	0.00	2569.62	74.99	74.99	158.93	5885.38	5803.98	72.30	
2700.00	2648.61	0.00	0.00	2665.61	77.90	77.90	159.02	5911.67	5827.05	69.86	
2800.00	2744.61	0.00	0.00	2761.61	80.82	80.82	159.12	5937.97	5850.14	67.60	
2900.00	2840.60	0.00	0.00	2857.60	83.73	83.73	159.22	5964.29	5873.24	65.50	
3000.00	2936.60	0.00	0.00	2953.60	86.65	86.65	159.31	5990.63	5896.35	63.54	
3100.00	3032.59	0.00	0.00	3049.59	89.57	89.57	159.40	6016.98	5919.48	61.71	
3200.00	3128.58	0.00	0.00	3145.58	92.48	92.48	159.50	6043.35	5942.62	60.00	
3300.00	3224.58	0.00	0.00	3241.58	95.40	95.40	159.59	6069.73	5965.77	58.39	
3400.00	3320.57	0.00	0.00	3337.57	98.31	98.31	159.68	6096.12	5988.93	56.87	
3500.00	3416.56	0.00	0.00	3433.56	101.23	101.23	159.77	6122.53	6012.11	55.45	
3600.00	3512.56	0.00	0.00	3529.56	104.14	104.14	159.86	6148.96	6035.30	54.10	
3700.00	3608.55	0.00	0.00	3625.55	107.06	107.06	159.95	6175.40	6058.51	52.83	
3800.00	3704.54	0.00	0.00	3721.54	109.97	109.97	160.04	6201.85	6081.72	51.63	
3900.00	3800.54	0.00	0.00	3817.54	112.89	112.89	160.13	6228.32	6104.95	50.49	
4000.00	3896.53	0.00	0.00	3913.53	115.80	115.80	160.21	6254.80	6128.20	49.41	
4100.00	3992.53	0.00	0.00	4009.53	118.72	118.72	160.30	6281.29	6151.45	48.38	
4200.00	4088.52	0.00	0.00	4105.52	121.63	121.63	160.38	6307.80	6174.72	47.40	
4300.00	4184.51	0.00	0.00	4201.51	124.55	124.55	160.47	6334.32	6198.01	46.47	
4400.00	4280.51	0.00	0.00	4297.51	127.46	127.46	160.55	6360.85	6221.30	45.58	
4500.00	4376.50	0.00	0.00	4393.50	130.38	130.38	160.64	6387.39	6244.61	44.73	
4600.00	4472.49	0.00	0.00	4489.49	133.29	133.29	160.72	6413.95	6267.93	43.93	
4700.00	4568.49	0.00	0.00	4585.49	136.21	136.21	160.80	6440.52	6291.26	43.15	
4800.00	4664.48	0.00	0.00	4681.48	139.12	139.12	160.88	6467.10	6314.61	42.41	
4900.00	4760.48	0.00	0.00	4777.48	142.04	142.04	160.96	6493.70	6337.97	41.70	
5000.00	4856.47	0.00	0.00	4873.47	144.95	144.95	161.04	6520.30	6361.34	41.02	
5100.00	4952.46	0.00	0.00	4969.46	147.87	147.87	161.12	6546.92	6384.72	40.36	
5200.00	5048.46	0.00	0.00	5065.46	150.78	150.78	161.20	6573.55	6408.11	39.73	
5300.00	5144.45	0.00	0.00	5161.45	153.70	153.70	161.28	6600.19	6431.52	39.13	
5400.00	5240.44	0.00	0.00	5257.44	156.61	156.61	161.36	6626.85	6454.94	38.55	
5500.00	5336.44	0.00	0.00	5353.44	159.53	159.53	161.43	6653.51	6478.37	37.99	
5600.00	5432.43	0.00	0.00	5449.43	162.45	162.45	161.51	6680.18	6501.81	37.45	
5700.00	5528.43	0.00	0.00	5545.43	165.36	165.36	161.59	6706.87	6525.26	36.93	
5800.00	5624.42	0.00	0.00	5641.42	168.28	168.28	161.66	6733.57	6548.73	36.43	
5900.00	5720.41	0.00	0.00	5737.41	171.19	171.19	161.73	6760.28	6572.20	35.94	
6000.00	5816.41	0.00	0.00	5833.41	174.11	174.11	161.81	6786.99	6595.69	35.48	
6100.00	5912.40	0.00	0.00	5929.40	177.02	177.02	161.88	6813.72	6619.18	35.03	
6200.00	6008.39	0.00	0.00	6025.39	179.94	179.94	161.95	6840.46	6642.69	34.59	
6300.00	6105.39	0.00	0.00	6122.39	182.88	182.88	148.90	6862.84	6661.85	34.14	
6400.00	6204.41	0.00	0.00	6221.41	185.89	185.89	100.65	6871.77	6667.58	33.65	
6500.00	6303.59	0.00	0.00	6320.59	188.90	188.90	44.53	6866.82	6659.46	33.12	
6600.00	6401.01	0.00	0.00	6418.01	191.86	191.86	26.75	6848.09	6637.66	32.54	
6700.00	6494.77	0.00	0.00	6511.77	194.71	194.71	20.16	6815.94	6602.61	31.95	
6800.00	6583.03	0.00	0.00	6600.03	197.39	197.39	17.15	6771.01	6554.98	31.34	
6900.00	6664.10	0.00	0.00	6681.10	199.85	199.85	15.80	6714.18	6495.69	30.73	
7000.00	6736.38	0.00	0.00	6753.38	202.04	202.04	15.51	6646.55	6425.88	30.12	
7100.00	6798.47	0.00	0.00	6815.47	203.93	203.93	16.17	6569.44	6346.89	29.52	
7200.00	6849.17	0.00	0.00	6866.17	205.47	205.47	18.05	6484.34	6260.27	28.94	
7300.00	6887.48	0.00	0.00	6904.48	206.63	206.63	22.16	6392.92	6167.70	28.39	
7400.00	6912.66	0.00	0.00	6929.66	207.40	207.40	32.05	6296.94	6070.94	27.86	

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
7500.00	6924.22	0.00	0.00	6941.22	207.75	207.75	65.45	6198.27	5971.85	27.37	
7600.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	6098.76	5872.32	26.93	
7700.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	5999.25	5772.68	26.48	
7800.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	5899.76	5673.14	26.03	
7900.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	5800.28	5573.59	25.59	
8000.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	5700.82	5474.05	25.14	
8100.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	5601.38	5374.55	24.69	
8200.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	5501.96	5274.97	24.24	
8300.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	5402.56	5175.42	23.78	
8400.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	5303.19	5075.93	23.34	
8500.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	5203.84	4976.51	22.89	
8600.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	5104.51	4877.03	22.44	
8700.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	5005.21	4777.51	21.98	
8800.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	4905.94	4678.05	21.53	
8900.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	4806.70	4578.65	21.08	
9000.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	4707.49	4479.21	20.62	
9100.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	4608.32	4379.83	20.17	
9200.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	4509.18	4280.51	19.72	
9300.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	4410.08	4181.12	19.26	
9400.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	4311.02	4081.74	18.80	
9500.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	4212.01	3982.41	18.35	
9600.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	4113.05	3883.15	17.89	
9700.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	4014.13	3783.87	17.43	
9800.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	3915.27	3684.56	16.97	
9900.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	3816.47	3585.22	16.50	
10000.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	3717.74	3485.92	16.04	
10100.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	3619.07	3386.64	15.57	
10200.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	3520.48	3287.36	15.10	
10300.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	3421.98	3188.14	14.63	
10400.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	3323.56	3088.97	14.17	
10500.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	3225.24	2989.81	13.70	
10600.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	3127.02	2890.72	13.23	
10700.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	3028.92	2791.60	12.76	
10800.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	2930.95	2692.56	12.29	
10900.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	2833.12	2593.60	11.83	
11000.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	2735.45	2494.73	11.36	
11100.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	2637.96	2395.97	10.90	
11200.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	2540.66	2297.33	10.44	
11300.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	2443.57	2198.83	9.98	
11400.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	2346.73	2100.46	9.53	
11500.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	2250.17	2002.05	9.07	
11600.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	2153.92	1903.84	8.61	
11700.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	2058.03	1805.85	8.16	
11800.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	1962.55	1708.12	7.71	
11900.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	1867.54	1610.70	7.27	
12000.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	1773.08	1513.03	6.82	
12100.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	1679.27	1415.72	6.37	
12200.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	1586.20	1318.88	5.93	
12300.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	1494.04	1222.49	5.50	
12400.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	1402.95	1126.75	5.08	
12500.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	1313.16	1031.95	4.67	
12600.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	1224.94	938.06	4.27	
12700.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	1138.68	844.50	3.87	
12800.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	1054.85	752.76	3.49	
12900.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	974.08	663.69	3.14	
13000.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	897.18	576.48	2.80	
13100.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	825.26	493.65	2.49	SF(Lo)
13200.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	759.71	415.81	2.21	SF(Lo)

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
13300.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	702.33	346.04	1.97	SF(Lo)
13400.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	655.27	285.79	1.77	SF(Lo)
13500.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	620.88	240.25	1.63	SF(Lo)
13600.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	601.34	212.94	1.55	SF(Lo)
13700.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	598.09	206.58	1.53	SF(Lo)
13800.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	611.42	221.82	1.57	SF(Lo)
13900.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	640.27	256.98	1.67	SF(Lo)
14000.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	682.68	308.89	1.83	SF(Lo)
14100.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	736.32	372.32	2.02	SF(Lo)
14200.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	798.92	445.53	2.26	SF(Lo)
14300.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	868.55	525.17	2.53	
14400.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	943.66	609.39	2.82	
14500.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	1023.04	696.75	3.14	
14600.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	1105.77	787.27	3.47	
14700.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	1191.15	879.30	3.82	
14800.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	1278.65	972.30	4.17	
14900.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	1367.87	1066.69	4.54	
15000.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	1458.48	1162.13	4.92	
15100.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	1550.25	1258.31	5.31	
15200.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	1642.98	1355.12	5.71	
15300.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	1736.52	1451.68	6.10	
15400.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	1830.74	1548.71	6.49	
15440.87	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	1869.42	1588.49	6.65	
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	263.21	7067.66	7066.93	9706.99	
100.00	83.00	0.00	0.00	100.00	1.26	1.26	263.21	7067.64	7065.54	3372.71	
200.00	183.00	0.00	0.00	200.00	3.03	3.03	263.21	7067.64	7063.56	1731.16	
300.00	283.00	0.00	0.00	300.00	6.06	6.06	263.21	7067.64	7060.30	963.01	
400.00	383.00	0.00	0.00	400.00	9.10	9.10	263.21	7067.64	7057.22	678.03	
500.00	483.00	0.00	0.00	500.00	12.14	12.14	263.21	7067.64	7053.96	516.63	
600.00	583.00	0.00	0.00	600.00	15.17	15.17	263.21	7067.64	7050.70	417.29	
700.00	683.00	0.00	0.00	700.00	18.21	18.21	263.21	7067.64	7047.45	350.00	
800.00	783.00	0.00	0.00	800.00	21.25	21.25	263.21	7067.64	7044.19	301.39	
900.00	883.00	0.00	0.00	900.00	24.28	24.28	263.21	7067.64	7040.93	264.64	
1000.00	983.00	0.00	0.00	1000.00	27.32	27.32	263.21	7067.64	7037.68	235.88	
1100.00	1083.00	0.00	0.00	1100.00	30.36	30.36	263.21	7067.64	7034.42	212.76	
1200.00	1183.00	0.00	0.00	1200.00	33.40	33.40	263.21	7067.64	7031.16	193.76	
1300.00	1283.00	0.00	0.00	1300.00	36.43	36.43	263.21	7067.64	7027.91	177.88	
1400.00	1382.98	0.00	0.00	1399.98	39.47	39.47	155.35	7069.23	7026.27	164.57	
1500.00	1482.84	0.00	0.00	1499.84	42.50	42.50	155.33	7073.98	7027.80	153.17	
1600.00	1582.45	0.00	0.00	1599.45	45.53	45.53	155.29	7081.91	7032.50	143.35	
1700.00	1681.70	0.00	0.00	1698.70	48.54	48.54	155.24	7092.99	7040.37	134.79	
1800.00	1780.47	0.00	0.00	1797.47	51.54	51.54	155.17	7107.22	7051.40	127.32	
1900.00	1878.62	0.00	0.00	1895.62	54.52	54.52	155.09	7124.59	7065.57	120.71	
2000.00	1976.06	0.00	0.00	1993.06	57.48	57.48	154.99	7145.08	7082.85	114.83	
2100.00	2072.64	0.00	0.00	2089.64	60.41	60.41	154.87	7168.66	7103.25	109.59	
2200.00	2168.65	0.00	0.00	2185.65	63.33	63.33	154.93	7194.19	7125.59	104.87	
2300.00	2264.64	0.00	0.00	2281.64	66.24	66.24	155.03	7219.76	7147.97	100.57	
2400.00	2360.63	0.00	0.00	2377.63	69.16	69.16	155.12	7245.35	7170.37	96.63	
2500.00	2456.63	0.00	0.00	2473.63	72.07	72.07	155.21	7270.96	7192.78	93.01	
2600.00	2552.62	0.00	0.00	2569.62	74.99	74.99	155.30	7296.58	7215.20	89.66	
2700.00	2648.61	0.00	0.00	2665.61	77.90	77.90	155.39	7322.23	7237.64	86.57	
2800.00	2744.61	0.00	0.00	2761.61	80.82	80.82	155.48	7347.89	7260.09	83.70	
2900.00	2840.60	0.00	0.00	2857.60	83.73	83.73	155.57	7373.56	7282.56	81.02	
3000.00	2936.60	0.00	0.00	2953.60	86.65	86.65	155.66	7399.26	7305.04	78.53	

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
3100.00	3032.59	0.00	0.00	3049.59	89.57	89.57	155.75	7424.97	7327.54	76.21	
3200.00	3128.58	0.00	0.00	3145.58	92.48	92.48	155.84	7450.70	7350.05	74.03	
3300.00	3224.58	0.00	0.00	3241.58	95.40	95.40	155.93	7476.45	7372.58	71.98	
3400.00	3320.57	0.00	0.00	3337.57	98.31	98.31	156.01	7502.21	7395.12	70.06	
3500.00	3416.56	0.00	0.00	3433.56	101.23	101.23	156.10	7527.98	7417.68	68.25	
3600.00	3512.56	0.00	0.00	3529.56	104.14	104.14	156.19	7553.78	7440.25	66.54	
3700.00	3608.55	0.00	0.00	3625.55	107.06	107.06	156.27	7579.59	7462.84	64.92	
3800.00	3704.54	0.00	0.00	3721.54	109.97	109.97	156.35	7605.41	7485.42	63.38	
3900.00	3800.54	0.00	0.00	3817.54	112.89	112.89	156.44	7631.25	7508.01	61.92	
4000.00	3896.53	0.00	0.00	3913.53	115.80	115.80	156.52	7657.11	7530.61	60.53	
4100.00	3992.53	0.00	0.00	4009.53	118.72	118.72	156.60	7682.98	7553.23	59.21	
4200.00	4088.52	0.00	0.00	4105.52	121.63	121.63	156.69	7708.86	7575.86	57.96	
4300.00	4184.51	0.00	0.00	4201.51	124.55	124.55	156.77	7734.77	7598.50	56.76	
4400.00	4280.51	0.00	0.00	4297.51	127.46	127.46	156.85	7760.68	7621.16	55.63	
4500.00	4376.50	0.00	0.00	4393.50	130.38	130.38	156.93	7786.61	7643.84	54.54	
4600.00	4472.49	0.00	0.00	4489.49	133.29	133.29	157.01	7812.56	7666.53	53.50	
4700.00	4568.49	0.00	0.00	4585.49	136.21	136.21	157.09	7838.51	7689.23	52.51	
4800.00	4664.48	0.00	0.00	4681.48	139.12	139.12	157.17	7864.49	7711.94	51.56	
4900.00	4760.48	0.00	0.00	4777.48	142.04	142.04	157.25	7890.48	7734.67	50.64	
5000.00	4856.47	0.00	0.00	4873.47	144.95	144.95	157.33	7916.48	7757.42	49.77	
5100.00	4952.46	0.00	0.00	4969.46	147.87	147.87	157.40	7942.49	7780.18	48.93	
5200.00	5048.46	0.00	0.00	5065.46	150.78	150.78	157.48	7968.52	7802.95	48.13	
5300.00	5144.45	0.00	0.00	5161.45	153.70	153.70	157.56	7994.56	7825.73	47.35	
5400.00	5240.44	0.00	0.00	5257.44	156.61	156.61	157.63	8020.62	7848.53	46.61	
5500.00	5336.44	0.00	0.00	5353.44	159.53	159.53	157.71	8046.68	7871.34	45.89	
5600.00	5432.43	0.00	0.00	5449.43	162.45	162.45	157.78	8072.77	7894.17	45.20	
5700.00	5528.43	0.00	0.00	5545.43	165.36	165.36	157.86	8098.86	7917.01	44.54	
5800.00	5624.42	0.00	0.00	5641.42	168.28	168.28	157.93	8124.97	7939.86	43.89	
5900.00	5720.41	0.00	0.00	5737.41	171.19	171.19	158.00	8151.09	7962.72	43.27	
6000.00	5816.41	0.00	0.00	5833.41	174.11	174.11	158.08	8177.22	7985.60	42.67	
6100.00	5912.40	0.00	0.00	5929.40	177.02	177.02	158.15	8203.37	8008.49	42.10	
6200.00	6008.39	0.00	0.00	6025.39	179.94	179.94	158.22	8229.52	8031.39	41.54	
6300.00	6105.39	0.00	0.00	6122.39	182.88	182.88	145.26	8251.31	8049.94	40.98	
6400.00	6204.41	0.00	0.00	6221.41	185.89	185.89	97.04	8259.59	8054.99	40.37	
6500.00	6303.59	0.00	0.00	6320.59	188.90	188.90	40.88	8253.94	8046.17	39.73	
6600.00	6401.01	0.00	0.00	6418.01	191.86	191.86	22.98	8234.49	8023.63	39.05	
6700.00	6494.77	0.00	0.00	6511.77	194.71	194.71	16.17	8201.59	7987.81	38.36	
6800.00	6583.03	0.00	0.00	6600.03	197.39	197.39	12.83	8155.90	7939.40	37.67	
6900.00	6664.10	0.00	0.00	6681.10	199.85	199.85	10.98	8098.31	7879.33	36.98	
7000.00	6736.38	0.00	0.00	6753.38	202.04	202.04	9.97	8029.92	7808.76	36.31	
7100.00	6798.47	0.00	0.00	6815.47	203.93	203.93	9.52	7952.07	7729.06	35.66	
7200.00	6849.17	0.00	0.00	6866.17	205.47	205.47	9.60	7866.28	7641.77	35.04	
7300.00	6887.48	0.00	0.00	6904.48	206.63	206.63	10.45	7774.20	7548.49	34.44	
7400.00	6912.66	0.00	0.00	6929.66	207.40	207.40	13.25	7677.63	7451.14	33.90	
7500.00	6924.22	0.00	0.00	6941.22	207.75	207.75	31.70	7578.45	7351.65	33.41	
7600.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	7478.49	7251.61	32.96	
7700.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	7378.52	7151.62	32.52	
7800.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	7278.55	7051.68	32.08	
7900.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	7178.58	6951.65	31.63	
8000.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	7078.61	6851.70	31.20	
8100.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	6978.65	6751.76	30.76	
8200.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	6878.68	6651.71	30.31	
8300.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	6778.71	6551.68	29.86	
8400.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	6678.75	6451.69	29.41	
8500.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	6578.79	6351.74	28.98	
8600.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	6478.82	6251.78	28.54	
8700.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	6378.86	6151.76	28.09	
8800.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	6278.90	6051.73	27.64	

5D Anti-Collision Report

Secondary Well: Etter 30-32 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											Risk
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	
8900.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	6178.95	5951.74	27.20	
9000.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	6078.99	5851.78	26.76	
9100.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	5979.03	5751.74	26.31	
9200.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	5879.08	5651.73	25.86	
9300.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	5779.13	5551.75	25.42	
9400.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	5679.18	5451.78	24.98	
9500.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	5579.23	5351.79	24.53	
9600.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	5479.28	5251.78	24.08	
9700.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	5379.33	5151.74	23.64	
9800.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	5279.39	5051.72	23.19	
9900.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	5179.45	4951.71	22.74	
10000.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	5079.51	4851.72	22.30	
10100.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	4979.58	4751.72	21.85	
10200.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	4879.64	4651.69	21.41	
10300.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	4779.71	4551.68	20.96	
10400.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	4679.78	4451.66	20.51	
10500.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	4579.86	4351.66	20.07	
10600.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	4479.94	4251.65	19.62	
10700.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	4380.02	4151.64	19.18	
10800.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	4280.11	4051.63	18.73	
10900.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	4180.20	3951.60	18.29	
11000.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	4080.29	3851.57	17.84	
11100.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	3980.39	3751.53	17.39	
11200.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	3880.50	3651.50	16.95	
11300.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	3780.61	3551.47	16.50	
11400.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	3680.72	3451.44	16.05	
11500.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	3580.85	3351.41	15.61	
11600.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	3480.98	3251.35	15.16	
11700.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	3381.11	3151.28	14.71	
11800.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	3281.26	3051.21	14.26	
11900.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	3181.42	2951.14	13.82	
12000.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	3081.58	2851.08	13.37	
12100.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	2981.76	2751.01	12.92	
12200.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	2881.95	2650.93	12.48	
12300.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	2782.15	2550.85	12.03	
12400.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	2682.36	2450.73	11.58	
12500.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	2582.60	2350.61	11.13	
12600.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	2482.85	2250.49	10.69	
12700.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	2383.12	2150.34	10.24	
12800.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	2283.42	2050.14	9.79	
12900.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	2183.75	1949.92	9.34	
13000.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	2084.10	1849.68	8.89	
13100.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	1984.50	1749.40	8.44	
13200.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	1884.93	1649.07	7.99	
13300.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	1785.41	1548.71	7.54	
13400.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	1685.95	1448.32	7.09	
13500.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	1586.56	1347.90	6.65	
13600.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	1487.24	1247.29	6.20	
13700.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	1388.03	1146.61	5.75	
13800.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	1288.94	1045.85	5.30	
13900.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	1190.00	944.93	4.86	
14000.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	1091.25	843.36	4.40	
14100.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	992.76	741.42	3.95	
14200.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	894.60	638.98	3.50	
14300.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	796.89	536.10	3.06	
14400.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	699.84	432.69	2.62	
14500.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	603.75	328.61	2.19	SF(Lo)
14600.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	509.16	222.04	1.77	SF(Lo)

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
14700.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	417.11	112.96	1.37	SF(Med)
14800.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	329.72	0.62	1.00	SF(Med)
14900.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	251.89	-113.83	0.69	SF(Hi)
15000.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	195.40	-216.25	0.47	SF(Hi)
15100.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	181.43	-246.47	0.42	SF(Hi)
15200.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	218.29	-173.44	0.56	SF(Hi)
15300.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	287.03	-61.45	0.82	SF(Hi)
15400.00	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	370.30	52.22	1.16	SF(Med)
15440.87	6925.00	0.00	0.00	6942.00	207.77	207.77	90.00	406.51	97.54	1.32	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	106.21	1520.99	1520.33	2303.18	
100.00	67.00	0.00	0.00	100.00	1.02	1.02	106.21	1520.64	1518.85	852.01	
200.00	167.00	0.00	0.00	200.00	2.54	2.54	106.21	1520.64	1517.11	431.02	
300.00	267.00	0.00	0.00	300.00	5.58	5.58	106.21	1520.64	1513.85	224.20	
400.00	367.00	0.00	0.00	400.00	8.61	8.61	106.21	1520.64	1510.60	151.50	
500.00	467.00	0.00	0.00	500.00	11.65	11.65	106.21	1520.64	1507.52	115.90	
600.00	567.00	0.00	0.00	600.00	14.69	14.69	106.21	1520.64	1504.26	92.87	
700.00	667.00	0.00	0.00	700.00	17.73	17.73	106.21	1520.64	1501.01	77.47	
800.00	767.00	0.00	0.00	800.00	20.76	20.76	106.21	1520.64	1497.75	66.45	
900.00	867.00	0.00	0.00	900.00	23.80	23.80	106.21	1520.64	1494.50	58.18	
1000.00	967.00	0.00	0.00	1000.00	26.84	26.84	106.21	1520.64	1491.24	51.74	
1100.00	1067.00	0.00	0.00	1100.00	29.87	29.87	106.21	1520.64	1487.99	46.58	
1200.00	1167.00	0.00	0.00	1200.00	32.91	32.91	106.21	1520.64	1484.73	42.36	
1300.00	1267.00	0.00	0.00	1300.00	35.95	35.95	106.21	1520.64	1481.48	38.84	
1400.00	1366.98	0.00	0.00	1399.98	38.98	38.98	358.36	1518.89	1476.50	35.83	
1500.00	1466.84	0.00	0.00	1499.84	42.02	42.02	358.35	1513.66	1468.05	33.18	
1600.00	1566.45	0.00	0.00	1599.45	45.04	45.04	358.34	1504.95	1456.13	30.82	
1700.00	1665.70	0.00	0.00	1698.70	48.05	48.05	358.32	1492.77	1440.73	28.69	
1800.00	1764.47	0.00	0.00	1797.47	51.05	51.05	358.29	1477.13	1421.89	26.74	
1900.00	1862.62	0.00	0.00	1895.62	54.03	54.03	358.26	1458.06	1399.63	24.96	
2000.00	1960.06	0.00	0.00	1993.06	56.99	56.99	358.21	1435.58	1373.97	23.30	
2100.00	2056.64	0.00	0.00	2089.64	59.93	59.93	358.16	1409.71	1344.95	21.77	
2200.00	2152.65	0.00	0.00	2185.65	62.84	62.84	358.12	1381.73	1313.83	20.35	
2300.00	2248.64	0.00	0.00	2281.64	65.76	65.76	358.09	1353.72	1282.68	19.05	
2400.00	2344.63	0.00	0.00	2377.63	68.67	68.67	358.04	1325.72	1251.53	17.87	
2500.00	2440.63	0.00	0.00	2473.63	71.59	71.59	358.00	1297.71	1220.38	16.78	
2600.00	2536.62	0.00	0.00	2569.62	74.50	74.50	357.96	1269.71	1189.23	15.78	
2700.00	2632.61	0.00	0.00	2665.61	77.42	77.42	357.91	1241.70	1158.07	14.85	
2800.00	2728.61	0.00	0.00	2761.61	80.33	80.33	357.86	1213.70	1126.91	13.99	
2900.00	2824.60	0.00	0.00	2857.60	83.25	83.25	357.81	1185.69	1095.75	13.18	
3000.00	2920.60	0.00	0.00	2953.60	86.16	86.16	357.76	1157.69	1064.59	12.44	
3100.00	3016.59	0.00	0.00	3049.59	89.08	89.08	357.71	1129.69	1033.43	11.74	
3200.00	3112.58	0.00	0.00	3145.58	91.99	91.99	357.65	1101.69	1002.27	11.08	
3300.00	3208.58	0.00	0.00	3241.58	94.91	94.91	357.59	1073.69	971.10	10.47	
3400.00	3304.57	0.00	0.00	3337.57	97.82	97.82	357.52	1045.69	939.94	9.89	
3500.00	3400.56	0.00	0.00	3433.56	100.74	100.74	357.45	1017.70	908.77	9.34	
3600.00	3496.56	0.00	0.00	3529.56	103.66	103.66	357.38	989.70	877.60	8.83	
3700.00	3592.55	0.00	0.00	3625.55	106.57	106.57	357.30	961.71	846.44	8.34	
3800.00	3688.54	0.00	0.00	3721.54	109.49	109.49	357.22	933.71	815.27	7.88	
3900.00	3784.54	0.00	0.00	3817.54	112.40	112.40	357.14	905.72	784.11	7.45	
4000.00	3880.53	0.00	0.00	3913.53	115.32	115.32	357.05	877.74	752.95	7.03	
4100.00	3976.53	0.00	0.00	4009.53	118.23	118.23	356.95	849.75	721.77	6.64	
4200.00	4072.52	0.00	0.00	4105.52	121.15	121.15	356.85	821.77	690.58	6.26	
4300.00	4168.51	0.00	0.00	4201.51	124.06	124.06	356.73	793.78	659.39	5.91	
4400.00	4264.51	0.00	0.00	4297.51	126.98	126.98	356.61	765.81	628.20	5.57	

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
4500.00	4360.50	0.00	0.00	4393.50	129.89	129.89	356.49	737.83	597.01	5.24	
4600.00	4456.49	0.00	0.00	4489.49	132.81	132.81	356.35	709.86	565.82	4.93	
4700.00	4552.49	0.00	0.00	4585.49	135.72	135.72	356.20	681.89	534.63	4.63	
4800.00	4648.48	0.00	0.00	4681.48	138.64	138.64	356.03	653.93	503.45	4.35	
4900.00	4744.48	0.00	0.00	4777.48	141.55	141.55	355.86	625.97	472.26	4.07	
5000.00	4840.47	0.00	0.00	4873.47	144.47	144.47	355.66	598.02	441.08	3.81	
5100.00	4936.46	0.00	0.00	4969.46	147.38	147.38	355.45	570.08	409.90	3.56	
5200.00	5032.46	0.00	0.00	5065.46	150.30	150.30	355.22	542.14	378.72	3.32	
5300.00	5128.45	0.00	0.00	5161.45	153.21	153.21	354.96	514.22	347.55	3.09	
5400.00	5224.44	0.00	0.00	5257.44	156.13	156.13	354.67	486.30	316.38	2.86	
5500.00	5320.44	0.00	0.00	5353.44	159.04	159.04	354.34	458.40	285.22	2.65	
5600.00	5416.43	0.00	0.00	5449.43	161.96	161.96	353.97	430.51	254.08	2.44	SF(Lo)
5700.00	5512.43	0.00	0.00	5545.43	164.87	164.87	353.55	402.64	222.95	2.24	SF(Lo)
5800.00	5608.42	0.00	0.00	5641.42	167.79	167.79	353.07	374.80	191.85	2.05	SF(Lo)
5900.00	5704.41	0.00	0.00	5737.41	170.71	170.71	352.51	346.98	160.77	1.86	SF(Lo)
6000.00	5800.41	0.00	0.00	5833.41	173.62	173.62	351.86	319.20	129.71	1.68	SF(Lo)
6100.00	5896.40	0.00	0.00	5929.40	176.54	176.54	351.08	291.46	98.68	1.51	SF(Lo)
6200.00	5992.39	0.00	0.00	6025.39	179.45	179.45	350.14	263.78	67.74	1.35	SF(Med)
6300.00	6089.39	0.00	0.00	6122.39	182.40	182.40	335.44	240.48	41.24	1.21	SF(Med)
6400.00	6188.41	0.00	0.00	6221.41	185.40	185.40	284.81	230.66	28.38	1.14	SF(Med)
6500.00	6287.59	0.00	0.00	6320.59	188.42	188.42	225.84	235.08	28.59	1.14	SF(Med)
6600.00	6385.01	0.00	0.00	6418.01	191.37	191.37	205.13	253.85	43.73	1.21	SF(Med)
6700.00	6478.77	0.00	0.00	6511.77	194.22	194.22	195.81	286.58	73.33	1.34	SF(Med)
6800.00	6567.03	0.00	0.00	6600.03	196.90	196.90	190.36	332.48	116.58	1.54	SF(Lo)
6900.00	6648.10	0.00	0.00	6681.10	199.36	199.36	186.74	390.48	171.71	1.78	SF(Lo)
7000.00	6720.38	0.00	0.00	6753.38	201.56	201.56	184.09	459.30	238.11	2.08	SF(Lo)
7100.00	6782.47	0.00	0.00	6815.47	203.44	203.44	181.89	537.54	314.38	2.41	SF(Lo)
7200.00	6833.17	0.00	0.00	6866.17	204.98	204.98	179.67	623.64	398.96	2.78	
7300.00	6871.48	0.00	0.00	6904.48	206.15	206.15	176.66	715.92	490.16	3.17	
7400.00	6896.66	0.00	0.00	6929.66	206.91	206.91	170.35	812.58	586.23	3.59	
7500.00	6908.22	0.00	0.00	6941.22	207.26	207.26	137.78	911.77	685.12	4.02	
7600.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	1011.66	785.12	4.47	
7700.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	1111.57	885.17	4.91	
7800.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	1211.50	985.16	5.35	
7900.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	1311.45	1085.23	5.80	
8000.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	1411.40	1185.29	6.24	
8100.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	1511.35	1285.29	6.69	
8200.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	1611.31	1385.26	7.13	
8300.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	1711.28	1485.27	7.57	
8400.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	1811.25	1585.30	8.02	
8500.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	1911.22	1685.36	8.46	
8600.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	2011.20	1785.33	8.90	
8700.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	2111.18	1885.24	9.34	
8800.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	2211.16	1985.19	9.79	
8900.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	2311.14	2085.18	10.23	
9000.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	2411.12	2185.18	10.67	
9100.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	2511.11	2285.11	11.11	
9200.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	2611.09	2385.07	11.55	
9300.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	2711.08	2485.06	12.00	
9400.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	2811.07	2585.07	12.44	
9500.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	2911.06	2685.07	12.88	
9600.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	3011.05	2785.02	13.32	
9700.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	3111.04	2884.98	13.76	
9800.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	3211.03	2984.96	14.20	
9900.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	3311.02	3084.94	14.65	
10000.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	3411.01	3184.92	15.09	
10100.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	3511.00	3284.90	15.53	
10200.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	3611.00	3384.89	15.97	

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
10300.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	3710.99	3484.88	16.41	
10400.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	3810.98	3584.86	16.85	
10500.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	3910.98	3684.82	17.29	
10600.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	4010.97	3784.78	17.73	
10700.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	4110.96	3884.74	18.17	
10800.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	4210.96	3984.71	18.61	
10900.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	4310.95	4084.67	19.05	
11000.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	4410.95	4184.64	19.49	
11100.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	4510.94	4284.61	19.93	
11200.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	4610.94	4384.58	20.37	
11300.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	4710.94	4484.56	20.81	
11400.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	4810.93	4584.53	21.25	
11500.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	4910.93	4684.50	21.69	
11600.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	5010.92	4784.47	22.13	
11700.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	5110.92	4884.44	22.57	
11800.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	5210.92	4984.42	23.01	
11900.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	5310.91	5084.39	23.45	
12000.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	5410.91	5184.36	23.88	
12100.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	5510.91	5284.33	24.32	
12200.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	5610.90	5384.30	24.76	
12300.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	5710.90	5484.27	25.20	
12400.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	5810.90	5584.24	25.64	
12500.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	5910.90	5684.21	26.08	
12600.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	6010.89	5784.18	26.51	
12700.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	6110.89	5884.15	26.95	
12800.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	6210.89	5984.11	27.39	
12900.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	6310.89	6084.08	27.82	
13000.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	6410.88	6184.04	28.26	
13100.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	6510.88	6284.01	28.70	
13200.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	6610.88	6383.97	29.13	
13300.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	6710.88	6483.93	29.57	
13400.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	6810.87	6583.90	30.01	
13500.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	6910.87	6683.86	30.44	
13600.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	7010.87	6783.82	30.88	
13700.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	7110.87	6883.78	31.31	
13800.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	7210.87	6983.74	31.75	
13900.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	7310.87	7083.70	32.18	
14000.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	7410.86	7183.66	32.62	
14100.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	7510.86	7283.62	33.05	
14200.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	7610.86	7383.58	33.49	
14300.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	7710.86	7483.54	33.92	
14400.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	7810.86	7583.50	34.35	
14500.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	7910.86	7683.45	34.79	
14600.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	8010.85	7783.40	35.22	
14700.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	8110.85	7883.35	35.65	
14800.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	8210.85	7983.30	36.08	
14900.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	8310.85	8083.25	36.52	
15000.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	8410.85	8183.20	36.95	
15100.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	8510.85	8283.15	37.38	
15200.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	8610.85	8383.10	37.81	
15300.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	8710.84	8483.05	38.24	
15400.00	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	8810.84	8583.00	38.67	
15440.87	6909.00	0.00	0.00	6942.00	207.29	207.29	90.00	8851.71	8623.84	38.85	
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	257.53	6855.29	6854.56	9415.27	

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
100.00	75.00	0.00	0.00	100.00	1.14	1.14	257.53	6855.24	6853.27	3470.75	
200.00	175.00	0.00	0.00	200.00	2.78	2.78	257.53	6855.24	6851.40	1784.28	
300.00	275.00	0.00	0.00	300.00	5.82	5.82	257.53	6855.24	6848.14	965.44	
400.00	375.00	0.00	0.00	400.00	8.86	8.86	257.53	6855.24	6844.88	661.75	
500.00	475.00	0.00	0.00	500.00	11.89	11.89	257.53	6855.24	6841.80	509.84	
600.00	575.00	0.00	0.00	600.00	14.93	14.93	257.53	6855.24	6838.54	410.38	
700.00	675.00	0.00	0.00	700.00	17.97	17.97	257.53	6855.24	6835.28	343.39	
800.00	775.00	0.00	0.00	800.00	21.01	21.01	257.53	6855.24	6832.02	295.21	
900.00	875.00	0.00	0.00	900.00	24.04	24.04	257.53	6855.24	6828.76	258.88	
1000.00	975.00	0.00	0.00	1000.00	27.08	27.08	257.53	6855.24	6825.50	230.51	
1100.00	1075.00	0.00	0.00	1100.00	30.12	30.12	257.53	6855.24	6822.25	207.75	
1200.00	1175.00	0.00	0.00	1200.00	33.15	33.15	257.53	6855.24	6818.99	189.08	
1300.00	1275.00	0.00	0.00	1300.00	36.19	36.19	257.53	6855.24	6815.73	173.49	
1400.00	1374.98	0.00	0.00	1399.98	39.23	39.23	149.67	6856.75	6814.00	160.40	
1500.00	1474.84	0.00	0.00	1499.84	42.26	42.26	149.64	6861.27	6815.29	149.24	
1600.00	1574.45	0.00	0.00	1599.45	45.28	45.28	149.60	6868.79	6819.60	139.62	
1700.00	1673.70	0.00	0.00	1698.70	48.30	48.30	149.55	6879.32	6826.91	131.26	
1800.00	1772.47	0.00	0.00	1797.47	51.30	51.30	149.48	6892.85	6837.21	123.88	
1900.00	1870.62	0.00	0.00	1895.62	54.28	54.28	149.39	6909.35	6850.49	117.38	
2000.00	1968.06	0.00	0.00	1993.06	57.24	57.24	149.28	6928.83	6866.75	111.61	
2100.00	2064.64	0.00	0.00	2089.64	60.17	60.17	149.15	6951.26	6885.97	106.46	
2200.00	2160.65	0.00	0.00	2185.65	63.09	63.09	149.23	6975.55	6907.05	101.83	
2300.00	2256.64	0.00	0.00	2281.64	66.00	66.00	149.35	6999.89	6928.18	97.61	
2400.00	2352.63	0.00	0.00	2377.63	68.92	68.92	149.46	7024.26	6949.32	93.73	
2500.00	2448.63	0.00	0.00	2473.63	71.83	71.83	149.58	7048.66	6970.47	90.15	
2600.00	2544.62	0.00	0.00	2569.62	74.75	74.75	149.69	7073.08	6991.65	86.86	
2700.00	2640.61	0.00	0.00	2665.61	77.66	77.66	149.81	7097.53	7012.85	83.81	
2800.00	2736.61	0.00	0.00	2761.61	80.58	80.58	149.92	7122.01	7034.07	80.98	
2900.00	2832.60	0.00	0.00	2857.60	83.49	83.49	150.03	7146.51	7055.31	78.36	
3000.00	2928.60	0.00	0.00	2953.60	86.41	86.41	150.14	7171.04	7076.57	75.91	
3100.00	3024.59	0.00	0.00	3049.59	89.32	89.32	150.25	7195.60	7097.86	73.62	
3200.00	3120.58	0.00	0.00	3145.58	92.24	92.24	150.36	7220.18	7119.17	71.48	
3300.00	3216.58	0.00	0.00	3241.58	95.15	95.15	150.47	7244.78	7140.51	69.48	
3400.00	3312.57	0.00	0.00	3337.57	98.07	98.07	150.58	7269.41	7161.87	67.60	
3500.00	3408.56	0.00	0.00	3433.56	100.98	100.98	150.68	7294.06	7183.25	65.82	
3600.00	3504.56	0.00	0.00	3529.56	103.90	103.90	150.79	7318.74	7204.66	64.15	
3700.00	3600.55	0.00	0.00	3625.55	106.81	106.81	150.89	7343.44	7226.09	62.57	
3800.00	3696.54	0.00	0.00	3721.54	109.73	109.73	151.00	7368.17	7247.54	61.08	
3900.00	3792.54	0.00	0.00	3817.54	112.64	112.64	151.10	7392.92	7269.02	59.67	
4000.00	3888.53	0.00	0.00	3913.53	115.56	115.56	151.21	7417.69	7290.52	58.33	
4100.00	3984.53	0.00	0.00	4009.53	118.47	118.47	151.31	7442.49	7312.04	57.05	
4200.00	4080.52	0.00	0.00	4105.52	121.39	121.39	151.41	7467.31	7333.59	55.84	
4300.00	4176.51	0.00	0.00	4201.51	124.30	124.30	151.51	7492.15	7355.15	54.69	
4400.00	4272.51	0.00	0.00	4297.51	127.22	127.22	151.62	7517.01	7376.75	53.59	
4500.00	4368.50	0.00	0.00	4393.50	130.14	130.14	151.72	7541.90	7398.36	52.54	
4600.00	4464.49	0.00	0.00	4489.49	133.05	133.05	151.82	7566.80	7420.00	51.54	
4700.00	4560.49	0.00	0.00	4585.49	135.97	135.97	151.91	7591.73	7441.66	50.59	
4800.00	4656.48	0.00	0.00	4681.48	138.88	138.88	152.01	7616.68	7463.34	49.67	
4900.00	4752.48	0.00	0.00	4777.48	141.80	141.80	152.11	7641.65	7485.04	48.79	
5000.00	4848.47	0.00	0.00	4873.47	144.71	144.71	152.21	7666.65	7506.77	47.95	
5100.00	4944.46	0.00	0.00	4969.46	147.63	147.63	152.30	7691.66	7528.52	47.15	
5200.00	5040.46	0.00	0.00	5065.46	150.54	150.54	152.40	7716.70	7550.29	46.37	
5300.00	5136.45	0.00	0.00	5161.45	153.46	153.46	152.50	7741.75	7572.08	45.63	
5400.00	5232.44	0.00	0.00	5257.44	156.37	156.37	152.59	7766.83	7593.89	44.91	
5500.00	5328.44	0.00	0.00	5353.44	159.29	159.29	152.68	7791.92	7615.72	44.22	
5600.00	5424.43	0.00	0.00	5449.43	162.20	162.20	152.78	7817.04	7637.58	43.56	
5700.00	5520.43	0.00	0.00	5545.43	165.12	165.12	152.87	7842.17	7659.45	42.92	
5800.00	5616.42	0.00	0.00	5641.42	168.03	168.03	152.96	7867.33	7681.35	42.30	

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
5900.00	5712.41	0.00	0.00	5737.41	170.95	170.95	153.05	7892.50	7703.26	41.71	
6000.00	5808.41	0.00	0.00	5833.41	173.86	173.86	153.15	7917.69	7725.20	41.13	
6100.00	5904.40	0.00	0.00	5929.40	176.78	176.78	153.24	7942.90	7747.15	40.58	
6200.00	6000.39	0.00	0.00	6025.39	179.69	179.69	153.33	7968.13	7769.13	40.04	
6300.00	6097.39	0.00	0.00	6122.39	182.64	182.64	140.48	7989.00	7786.76	39.50	
6400.00	6196.41	0.00	0.00	6221.41	185.65	185.65	92.33	7996.38	7790.94	38.92	
6500.00	6295.59	0.00	0.00	6320.59	188.66	188.66	36.12	7989.87	7781.28	38.30	
6600.00	6393.01	0.00	0.00	6418.01	191.62	191.62	18.07	7969.59	7757.95	37.66	
6700.00	6486.77	0.00	0.00	6511.77	194.46	194.46	10.99	7935.94	7721.41	36.99	
6800.00	6575.03	0.00	0.00	6600.03	197.14	197.14	7.23	7889.55	7672.34	36.32	
6900.00	6656.10	0.00	0.00	6681.10	199.61	199.61	4.76	7831.34	7611.68	35.65	
7000.00	6728.38	0.00	0.00	6753.38	201.80	201.80	2.80	7762.43	7540.61	34.99	
7100.00	6790.47	0.00	0.00	6815.47	203.69	203.69	0.89	7684.17	7460.50	34.36	
7200.00	6841.17	0.00	0.00	6866.17	205.23	205.23	358.54	7598.06	7372.89	33.74	
7300.00	6879.48	0.00	0.00	6904.48	206.39	206.39	354.77	7505.80	7279.51	33.17	
7400.00	6904.66	0.00	0.00	6929.66	207.16	207.16	346.11	7409.17	7182.20	32.64	
7500.00	6916.22	0.00	0.00	6941.22	207.51	207.51	307.13	7310.07	7082.75	32.16	
7600.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	7210.30	6982.95	31.71	
7700.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	7110.53	6883.23	31.28	
7800.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	7010.76	6783.48	30.85	
7900.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	6911.01	6683.72	30.41	
8000.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	6811.26	6584.02	29.97	
8100.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	6711.51	6484.35	29.55	
8200.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	6611.78	6384.61	29.11	
8300.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	6512.05	6284.85	28.66	
8400.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	6412.33	6185.12	28.22	
8500.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	6312.62	6085.43	27.78	
8600.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	6212.92	5985.76	27.35	
8700.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	6113.23	5886.02	26.90	
8800.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	6013.55	5786.31	26.46	
8900.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	5913.88	5686.64	26.02	
9000.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	5814.23	5587.02	25.59	
9100.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	5714.58	5487.32	25.15	
9200.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	5614.95	5387.62	24.70	
9300.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	5515.33	5287.94	24.25	
9400.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	5415.72	5188.29	23.81	
9500.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	5316.13	5088.66	23.37	
9600.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	5216.55	4989.05	22.93	
9700.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	5116.99	4889.40	22.48	
9800.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	5017.45	4789.77	22.04	
9900.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	4917.93	4690.14	21.59	
10000.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	4818.43	4590.50	21.14	
10100.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	4718.94	4490.89	20.69	
10200.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	4619.48	4391.29	20.24	
10300.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	4520.05	4291.72	19.80	
10400.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	4420.64	4192.15	19.35	
10500.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	4321.26	4092.56	18.90	
10600.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	4221.90	3992.99	18.44	
10700.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	4122.58	3893.44	17.99	
10800.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	4023.29	3793.92	17.54	
10900.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	3924.04	3694.39	17.09	
11000.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	3824.82	3594.85	16.63	
11100.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	3725.65	3495.35	16.18	
11200.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	3626.52	3395.87	15.72	
11300.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	3527.44	3296.43	15.27	
11400.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	3428.42	3196.93	14.81	
11500.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	3329.45	3097.42	14.35	
11600.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	3230.55	2997.93	13.89	

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
11700.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	3131.72	2898.48	13.43	
11800.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	3032.96	2799.08	12.97	
11900.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	2934.29	2699.71	12.51	
12000.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	2835.71	2600.34	12.05	
12100.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	2737.24	2501.00	11.59	
12200.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	2638.88	2401.68	11.13	
12300.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	2540.65	2302.34	10.66	
12400.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	2442.56	2202.97	10.19	
12500.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	2344.63	2103.46	9.72	
12600.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	2246.88	2004.01	9.25	
12700.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	2149.35	1904.64	8.78	
12800.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	2052.05	1805.25	8.31	
12900.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	1955.02	1705.89	7.85	
13000.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	1858.30	1606.53	7.38	
13100.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	1761.96	1507.29	6.92	
13200.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	1666.04	1408.21	6.46	
13300.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	1570.64	1309.34	6.01	
13400.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	1475.84	1210.74	5.57	
13500.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	1381.78	1112.49	5.13	
13600.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	1288.61	1014.08	4.69	
13700.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	1196.54	915.50	4.26	
13800.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	1105.85	817.56	3.84	
13900.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	1016.91	720.55	3.43	
14000.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	930.22	624.77	3.05	
14100.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	846.47	529.00	2.67	
14200.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	766.63	436.19	2.32	SF(Lo)
14300.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	692.04	346.25	2.00	SF(Lo)
14400.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	624.60	261.98	1.72	SF(Lo)
14500.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	566.85	184.94	1.48	SF(Med)
14600.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	522.04	121.83	1.30	SF(Med)
14700.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	493.69	79.09	1.19	SF(Med)
14800.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	484.69	63.10	1.15	SF(Med)
14900.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	496.11	75.86	1.18	SF(Med)
15000.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	526.62	115.26	1.28	SF(Med)
15100.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	573.18	175.52	1.44	SF(Med)
15200.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	632.25	249.52	1.65	SF(Lo)
15300.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	700.67	332.15	1.90	SF(Lo)
15400.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	775.98	421.29	2.19	SF(Lo)
15440.87	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	808.30	458.01	2.31	SF(Lo)
Secondary Well: Firestien #30-45 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	25.00	0.00	0.00	250.50	3775.29	3774.57	5185.08	
100.00	75.00	0.00	0.00	100.00	1.14	1.14	250.50	3775.21	3773.23	1910.27	
200.00	175.00	0.00	0.00	200.00	2.78	2.78	250.50	3775.21	3771.37	981.90	
300.00	275.00	0.00	0.00	300.00	5.82	5.82	250.50	3775.21	3768.10	531.25	
400.00	375.00	0.00	0.00	400.00	8.86	8.86	250.50	3775.21	3764.84	364.13	
500.00	475.00	0.00	0.00	500.00	11.89	11.89	250.50	3775.21	3761.75	280.53	
600.00	575.00	0.00	0.00	600.00	14.93	14.93	250.50	3775.21	3758.49	225.80	
700.00	675.00	0.00	0.00	700.00	17.97	17.97	250.50	3775.21	3755.23	188.94	
800.00	775.00	0.00	0.00	800.00	21.01	21.01	250.50	3775.21	3751.97	162.43	
900.00	875.00	0.00	0.00	900.00	24.04	24.04	250.50	3775.21	3748.71	142.44	
1000.00	975.00	0.00	0.00	1000.00	27.08	27.08	250.50	3775.21	3745.45	126.83	
1100.00	1075.00	0.00	0.00	1100.00	30.12	30.12	250.50	3775.21	3742.18	114.31	
1200.00	1175.00	0.00	0.00	1200.00	33.15	33.15	250.50	3775.21	3738.92	104.03	
1300.00	1275.00	0.00	0.00	1300.00	36.19	36.19	250.50	3775.21	3735.66	95.45	
1400.00	1374.98	0.00	0.00	1399.98	39.23	39.23	142.65	3776.60	3733.82	88.28	

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
1500.00	1474.84	0.00	0.00	1499.84	42.26	42.26	142.65	3780.76	3734.76	82.18	
1600.00	1574.45	0.00	0.00	1599.45	45.28	45.28	142.64	3787.70	3738.46	76.93	
1700.00	1673.70	0.00	0.00	1698.70	48.30	48.30	142.64	3797.41	3744.96	72.40	
1800.00	1772.47	0.00	0.00	1797.47	51.30	51.30	142.63	3809.90	3754.22	68.43	
1900.00	1870.62	0.00	0.00	1895.62	54.28	54.28	142.61	3825.17	3766.26	64.93	
2000.00	1968.06	0.00	0.00	1993.06	57.24	57.24	142.59	3843.21	3781.07	61.85	
2100.00	2064.64	0.00	0.00	2089.64	60.17	60.17	142.56	3864.02	3798.66	59.12	
2200.00	2160.65	0.00	0.00	2185.65	63.09	63.09	142.77	3886.60	3818.01	56.67	
2300.00	2256.64	0.00	0.00	2281.64	66.00	66.00	143.02	3909.27	3837.46	54.44	
2400.00	2352.63	0.00	0.00	2377.63	68.92	68.92	143.26	3932.02	3856.96	52.39	
2500.00	2448.63	0.00	0.00	2473.63	71.83	71.83	143.50	3954.83	3876.53	50.51	
2600.00	2544.62	0.00	0.00	2569.62	74.75	74.75	143.74	3977.71	3896.16	48.78	
2700.00	2640.61	0.00	0.00	2665.61	77.66	77.66	143.97	4000.65	3915.86	47.18	
2800.00	2736.61	0.00	0.00	2761.61	80.58	80.58	144.20	4023.66	3935.61	45.70	
2900.00	2832.60	0.00	0.00	2857.60	83.49	83.49	144.43	4046.73	3955.43	44.33	
3000.00	2928.60	0.00	0.00	2953.60	86.41	86.41	144.66	4069.86	3975.31	43.04	
3100.00	3024.59	0.00	0.00	3049.59	89.32	89.32	144.88	4093.05	3995.24	41.85	
3200.00	3120.58	0.00	0.00	3145.58	92.24	92.24	145.10	4116.31	4015.24	40.73	
3300.00	3216.58	0.00	0.00	3241.58	95.15	95.15	145.32	4139.62	4035.29	39.68	
3400.00	3312.57	0.00	0.00	3337.57	98.07	98.07	145.54	4162.99	4055.41	38.70	
3500.00	3408.56	0.00	0.00	3433.56	100.98	100.98	145.75	4186.42	4075.59	37.77	
3600.00	3504.56	0.00	0.00	3529.56	103.90	103.90	145.96	4209.90	4095.83	36.90	
3700.00	3600.55	0.00	0.00	3625.55	106.81	106.81	146.17	4233.44	4116.09	36.07	
3800.00	3696.54	0.00	0.00	3721.54	109.73	109.73	146.38	4257.04	4136.37	35.28	
3900.00	3792.54	0.00	0.00	3817.54	112.64	112.64	146.59	4280.68	4156.71	34.53	
4000.00	3888.53	0.00	0.00	3913.53	115.56	115.56	146.79	4304.38	4177.10	33.82	
4100.00	3984.53	0.00	0.00	4009.53	118.47	118.47	146.99	4328.14	4197.54	33.14	
4200.00	4080.52	0.00	0.00	4105.52	121.39	121.39	147.19	4351.94	4218.04	32.50	
4300.00	4176.51	0.00	0.00	4201.51	124.30	124.30	147.39	4375.79	4238.58	31.89	
4400.00	4272.51	0.00	0.00	4297.51	127.22	127.22	147.58	4399.69	4259.18	31.31	
4500.00	4368.50	0.00	0.00	4393.50	130.14	130.14	147.77	4423.64	4279.83	30.76	
4600.00	4464.49	0.00	0.00	4489.49	133.05	133.05	147.96	4447.64	4300.53	30.23	
4700.00	4560.49	0.00	0.00	4585.49	135.97	135.97	148.15	4471.68	4321.27	29.73	
4800.00	4656.48	0.00	0.00	4681.48	138.88	138.88	148.34	4495.77	4342.06	29.25	
4900.00	4752.48	0.00	0.00	4777.48	141.80	141.80	148.52	4519.91	4362.90	28.79	
5000.00	4848.47	0.00	0.00	4873.47	144.71	144.71	148.70	4544.09	4383.79	28.35	
5100.00	4944.46	0.00	0.00	4969.46	147.63	147.63	148.88	4568.31	4404.72	27.93	
5200.00	5040.46	0.00	0.00	5065.46	150.54	150.54	149.06	4592.58	4425.70	27.52	
5300.00	5136.45	0.00	0.00	5161.45	153.46	153.46	149.24	4616.89	4446.73	27.13	
5400.00	5232.44	0.00	0.00	5257.44	156.37	156.37	149.42	4641.24	4467.79	26.76	
5500.00	5328.44	0.00	0.00	5353.44	159.29	159.29	149.59	4665.63	4488.90	26.40	
5600.00	5424.43	0.00	0.00	5449.43	162.20	162.20	149.76	4690.07	4510.06	26.05	
5700.00	5520.43	0.00	0.00	5545.43	165.12	165.12	149.93	4714.54	4531.25	25.72	
5800.00	5616.42	0.00	0.00	5641.42	168.03	168.03	150.10	4739.05	4552.49	25.40	
5900.00	5712.41	0.00	0.00	5737.41	170.95	170.95	150.26	4763.60	4573.77	25.09	
6000.00	5808.41	0.00	0.00	5833.41	173.86	173.86	150.43	4788.19	4595.09	24.80	
6100.00	5904.40	0.00	0.00	5929.40	176.78	176.78	150.59	4812.82	4616.45	24.51	
6200.00	6000.39	0.00	0.00	6025.39	179.69	179.69	150.75	4837.48	4637.85	24.23	
6300.00	6097.39	0.00	0.00	6122.39	182.64	182.64	138.03	4857.81	4654.93	23.94	
6400.00	6196.41	0.00	0.00	6221.41	185.65	185.65	89.95	4864.72	4658.64	23.61	
6500.00	6295.59	0.00	0.00	6320.59	188.66	188.66	33.76	4857.79	4648.55	23.22	
6600.00	6393.01	0.00	0.00	6418.01	191.62	191.62	15.67	4837.16	4624.87	22.79	
6700.00	6486.77	0.00	0.00	6511.77	194.46	194.46	8.49	4803.22	4588.03	22.32	
6800.00	6575.03	0.00	0.00	6600.03	197.14	197.14	4.55	4756.61	4538.74	21.83	
6900.00	6656.10	0.00	0.00	6681.10	199.61	199.61	1.78	4698.25	4477.95	21.33	
7000.00	6728.38	0.00	0.00	6753.38	201.80	201.80	359.37	4629.27	4406.81	20.81	
7100.00	6790.47	0.00	0.00	6815.47	203.69	203.69	356.75	4551.00	4326.73	20.29	
7200.00	6841.17	0.00	0.00	6866.17	205.23	205.23	353.22	4464.98	4239.20	19.78	

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
7300.00	6879.48	0.00	0.00	6904.48	206.39	206.39	347.27	4372.88	4145.95	19.27	
7400.00	6904.66	0.00	0.00	6929.66	207.16	207.16	334.02	4276.50	4048.84	18.78	
7500.00	6916.22	0.00	0.00	6941.22	207.51	207.51	293.42	4177.73	3949.79	18.33	
7600.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	4078.38	3850.43	17.89	
7700.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	3979.05	3751.10	17.46	
7800.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	3879.76	3651.84	17.02	
7900.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	3780.50	3552.66	16.59	
8000.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	3681.29	3453.46	16.16	
8100.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	3582.12	3354.31	15.72	
8200.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	3483.00	3255.16	15.29	
8300.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	3383.92	3156.04	14.85	
8400.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	3284.91	3056.99	14.41	
8500.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	3185.96	2958.02	13.98	
8600.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	3087.07	2859.13	13.54	
8700.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	2988.26	2760.28	13.11	
8800.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	2889.53	2661.39	12.67	
8900.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	2790.89	2562.60	12.23	
9000.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	2692.35	2463.92	11.79	
9100.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	2593.92	2365.35	11.35	
9200.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	2495.62	2266.88	10.91	
9300.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	2397.45	2168.45	10.47	
9400.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	2299.45	2069.89	10.02	
9500.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	2201.63	1971.41	9.56	
9600.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	2104.01	1872.96	9.11	
9700.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	2006.62	1774.69	8.65	
9800.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	1909.51	1676.59	8.20	
9900.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	1812.70	1578.55	7.74	
10000.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	1716.27	1480.77	7.29	
10100.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	1620.27	1383.30	6.84	
10200.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	1524.78	1286.14	6.39	
10300.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	1429.91	1189.36	5.94	
10400.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	1335.79	1093.17	5.51	
10500.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	1242.58	997.06	5.06	
10600.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	1150.52	901.17	4.61	
10700.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	1059.89	806.21	4.18	
10800.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	971.11	712.76	3.76	
10900.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	884.73	621.00	3.35	
11000.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	801.52	530.07	2.95	
11100.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	722.58	443.26	2.59	
11200.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	649.46	359.99	2.24	SF(Lo)
11300.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	584.37	284.05	1.95	SF(Lo)
11400.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	530.25	218.30	1.70	SF(Lo)
11500.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	490.77	167.11	1.52	SF(Lo)
11600.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	469.62	137.00	1.41	SF(Med)
11700.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	469.28	132.98	1.40	SF(Med)
11800.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	489.80	155.68	1.47	SF(Med)
11900.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	528.76	200.94	1.61	SF(Lo)
12000.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	582.47	262.83	1.82	SF(Lo)
12100.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	647.27	336.06	2.08	SF(Lo)
12200.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	720.17	416.94	2.37	SF(Lo)
12300.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	798.96	502.54	2.70	
12400.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	882.05	591.75	3.04	
12500.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	968.35	683.93	3.40	
12600.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	1057.06	776.63	3.77	
12700.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	1147.64	870.95	4.15	
12800.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	1239.66	966.48	4.54	
12900.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	1332.83	1062.89	4.94	
13000.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	1426.93	1159.83	5.34	

5D Anti-Collision Report

Secondary Well: Firestien #30-45 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
13100.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	1521.78	1256.77	5.74	
13200.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	1617.25	1353.96	6.14	
13300.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	1713.24	1451.55	6.55	
13400.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	1809.66	1549.47	6.96	
13500.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	1906.45	1647.65	7.37	
13600.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	2003.55	1746.05	7.78	
13700.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	2100.93	1844.63	8.20	
13800.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	2198.55	1943.36	8.62	
13900.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	2296.36	2042.22	9.04	
14000.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	2394.36	2141.20	9.46	
14100.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	2492.52	2240.27	9.88	
14200.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	2590.82	2339.43	10.31	
14300.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	2689.24	2438.66	10.73	
14400.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	2787.78	2537.94	11.16	
14500.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	2886.42	2637.23	11.58	
14600.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	2985.14	2736.57	12.01	
14700.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	3083.95	2835.95	12.44	
14800.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	3182.84	2935.21	12.85	
14900.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	3281.79	3034.51	13.27	
15000.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	3380.80	3133.86	13.69	
15100.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	3479.87	3233.24	14.11	
15200.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	3578.99	3332.67	14.53	
15300.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	3678.16	3432.12	14.95	
15400.00	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	3777.37	3531.60	15.37	
15440.87	6917.00	0.00	0.00	6942.00	207.53	207.53	270.00	3817.93	3572.27	15.54	

Secondary Well: Tigges 30-34 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	33.00	0.00	0.00	253.37	5799.17	5798.45	7964.81	
100.00	67.00	0.00	0.00	100.00	1.02	1.02	253.37	5799.08	5797.23	3129.59	
200.00	167.00	0.00	0.00	200.00	2.54	2.54	253.37	5799.08	5795.48	1612.20	
300.00	267.00	0.00	0.00	300.00	5.58	5.58	253.37	5799.08	5792.23	846.21	
400.00	367.00	0.00	0.00	400.00	8.61	8.61	253.37	5799.08	5788.97	573.66	
500.00	467.00	0.00	0.00	500.00	11.65	11.65	253.37	5799.08	5785.89	439.55	
600.00	567.00	0.00	0.00	600.00	14.69	14.69	253.37	5799.08	5782.63	352.55	
700.00	667.00	0.00	0.00	700.00	17.73	17.73	253.37	5799.08	5779.38	294.29	
800.00	767.00	0.00	0.00	800.00	20.76	20.76	253.37	5799.08	5776.12	252.56	
900.00	867.00	0.00	0.00	900.00	23.80	23.80	253.37	5799.08	5772.86	221.19	
1000.00	967.00	0.00	0.00	1000.00	26.84	26.84	253.37	5799.08	5769.61	196.76	
1100.00	1067.00	0.00	0.00	1100.00	29.87	29.87	253.37	5799.08	5766.35	177.18	
1200.00	1167.00	0.00	0.00	1200.00	32.91	32.91	253.37	5799.08	5763.10	161.15	
1300.00	1267.00	0.00	0.00	1300.00	35.95	35.95	253.37	5799.08	5759.84	147.78	
1400.00	1366.98	0.00	0.00	1399.98	38.98	38.98	145.52	5800.52	5758.05	136.59	
1500.00	1466.84	0.00	0.00	1499.84	42.02	42.02	145.50	5804.83	5759.15	127.05	
1600.00	1566.45	0.00	0.00	1599.45	45.04	45.04	145.46	5812.02	5763.12	118.84	
1700.00	1665.70	0.00	0.00	1698.70	48.05	48.05	145.42	5822.08	5769.96	111.69	
1800.00	1764.47	0.00	0.00	1797.47	51.05	51.05	145.36	5835.01	5779.67	105.44	
1900.00	1862.62	0.00	0.00	1895.62	54.03	54.03	145.28	5850.79	5792.25	99.94	
2000.00	1960.06	0.00	0.00	1993.06	56.99	56.99	145.19	5869.43	5807.67	95.04	
2100.00	2056.64	0.00	0.00	2089.64	59.93	59.93	145.08	5890.90	5825.93	90.67	
2200.00	2152.65	0.00	0.00	2185.65	62.84	62.84	145.19	5914.16	5845.98	86.75	
2300.00	2248.64	0.00	0.00	2281.64	65.76	65.76	145.35	5937.49	5866.10	83.17	
2400.00	2344.63	0.00	0.00	2377.63	68.67	68.67	145.50	5960.86	5886.24	79.89	
2500.00	2440.63	0.00	0.00	2473.63	71.59	71.59	145.65	5984.27	5906.43	76.88	
2600.00	2536.62	0.00	0.00	2569.62	74.50	74.50	145.80	6007.72	5926.64	74.10	
2700.00	2632.61	0.00	0.00	2665.61	77.42	77.42	145.95	6031.21	5946.89	71.53	
2800.00	2728.61	0.00	0.00	2761.61	80.33	80.33	146.09	6054.73	5967.17	69.15	

5D Anti-Collision Report

Secondary Well: Tigges 30-34 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
2900.00	2824.60	0.00	0.00	2857.60	83.25	83.25	146.24	6078.30	5987.46	66.91	
3000.00	2920.60	0.00	0.00	2953.60	86.16	86.16	146.38	6101.90	6007.78	64.83	
3100.00	3016.59	0.00	0.00	3049.59	89.08	89.08	146.53	6125.54	6028.14	62.89	
3200.00	3112.58	0.00	0.00	3145.58	91.99	91.99	146.67	6149.21	6048.53	61.07	
3300.00	3208.58	0.00	0.00	3241.58	94.91	94.91	146.81	6172.93	6068.95	59.37	
3400.00	3304.57	0.00	0.00	3337.57	97.82	97.82	146.95	6196.68	6089.41	57.77	
3500.00	3400.56	0.00	0.00	3433.56	100.74	100.74	147.09	6220.46	6109.90	56.26	
3600.00	3496.56	0.00	0.00	3529.56	103.66	103.66	147.23	6244.28	6130.42	54.84	
3700.00	3592.55	0.00	0.00	3625.55	106.57	106.57	147.36	6268.13	6150.97	53.50	
3800.00	3688.54	0.00	0.00	3721.54	109.49	109.49	147.50	6292.02	6171.56	52.23	
3900.00	3784.54	0.00	0.00	3817.54	112.40	112.40	147.63	6315.94	6192.19	51.03	
4000.00	3880.53	0.00	0.00	3913.53	115.32	115.32	147.77	6339.90	6212.84	49.90	
4100.00	3976.53	0.00	0.00	4009.53	118.23	118.23	147.90	6363.89	6233.53	48.82	
4200.00	4072.52	0.00	0.00	4105.52	121.15	121.15	148.03	6387.91	6254.25	47.79	
4300.00	4168.51	0.00	0.00	4201.51	124.06	124.06	148.16	6411.97	6275.01	46.82	
4400.00	4264.51	0.00	0.00	4297.51	126.98	126.98	148.29	6436.05	6295.80	45.89	
4500.00	4360.50	0.00	0.00	4393.50	129.89	129.89	148.42	6460.17	6316.62	45.00	
4600.00	4456.49	0.00	0.00	4489.49	132.81	132.81	148.55	6484.32	6337.47	44.16	
4700.00	4552.49	0.00	0.00	4585.49	135.72	135.72	148.68	6508.50	6358.36	43.35	
4800.00	4648.48	0.00	0.00	4681.48	138.64	138.64	148.81	6532.71	6379.27	42.57	
4900.00	4744.48	0.00	0.00	4777.48	141.55	141.55	148.93	6556.95	6400.22	41.83	
5000.00	4840.47	0.00	0.00	4873.47	144.47	144.47	149.06	6581.23	6421.20	41.13	
5100.00	4936.46	0.00	0.00	4969.46	147.38	147.38	149.18	6605.53	6442.21	40.45	
5200.00	5032.46	0.00	0.00	5065.46	150.30	150.30	149.30	6629.86	6463.25	39.79	
5300.00	5128.45	0.00	0.00	5161.45	153.21	153.21	149.42	6654.22	6484.32	39.17	
5400.00	5224.44	0.00	0.00	5257.44	156.13	156.13	149.55	6678.61	6505.42	38.56	
5500.00	5320.44	0.00	0.00	5353.44	159.04	159.04	149.67	6703.02	6526.55	37.98	
5600.00	5416.43	0.00	0.00	5449.43	161.96	161.96	149.79	6727.47	6547.71	37.42	
5700.00	5512.43	0.00	0.00	5545.43	164.87	164.87	149.90	6751.94	6568.89	36.89	
5800.00	5608.42	0.00	0.00	5641.42	167.79	167.79	150.02	6776.44	6590.11	36.37	
5900.00	5704.41	0.00	0.00	5737.41	170.71	170.71	150.14	6800.97	6611.36	35.87	
6000.00	5800.41	0.00	0.00	5833.41	173.62	173.62	150.25	6825.53	6632.63	35.38	
6100.00	5896.40	0.00	0.00	5929.40	176.54	176.54	150.37	6850.11	6653.93	34.92	
6200.00	5992.39	0.00	0.00	6025.39	179.45	179.45	150.48	6874.71	6675.26	34.47	
6300.00	6089.39	0.00	0.00	6122.39	182.40	182.40	137.72	6894.98	6692.27	34.01	
6400.00	6188.41	0.00	0.00	6221.41	185.40	185.40	89.60	6901.82	6695.90	33.52	
6500.00	6287.59	0.00	0.00	6320.59	188.42	188.42	33.38	6894.83	6685.74	32.98	
6600.00	6385.01	0.00	0.00	6418.01	191.37	191.37	15.25	6874.14	6661.99	32.40	
6700.00	6478.77	0.00	0.00	6511.77	194.22	194.22	8.01	6840.15	6625.10	31.81	
6800.00	6567.03	0.00	0.00	6600.03	196.90	196.90	4.01	6793.51	6575.78	31.20	
6900.00	6648.10	0.00	0.00	6681.10	199.36	199.36	1.17	6735.13	6514.96	30.59	
7000.00	6720.38	0.00	0.00	6753.38	201.56	201.56	358.66	6666.15	6443.83	29.98	
7100.00	6782.47	0.00	0.00	6815.47	203.44	203.44	355.91	6587.90	6363.76	29.39	
7200.00	6833.17	0.00	0.00	6866.17	204.98	204.98	352.18	6501.91	6276.30	28.82	
7300.00	6871.48	0.00	0.00	6904.48	206.15	206.15	345.92	6409.86	6183.10	28.27	
7400.00	6896.66	0.00	0.00	6929.66	206.91	206.91	332.17	6313.54	6086.06	27.75	
7500.00	6908.22	0.00	0.00	6941.22	207.26	207.26	292.15	6214.84	5987.08	27.29	
7600.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	6115.56	5887.82	26.85	
7700.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	6016.30	5788.55	26.42	
7800.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	5917.07	5689.36	25.99	
7900.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	5817.86	5590.23	25.56	
8000.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	5718.67	5491.08	25.13	
8100.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	5619.52	5391.95	24.69	
8200.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	5520.40	5292.81	24.26	
8300.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	5421.31	5193.68	23.82	
8400.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	5322.25	5094.60	23.38	
8500.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	5223.23	4995.56	22.94	
8600.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	5124.25	4896.59	22.51	

5D Anti-Collision Report

Secondary Well: Tigges 30-34 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
8700.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	5025.31	4797.61	22.07	
8800.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	4926.41	4698.62	21.63	
8900.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	4827.56	4599.67	21.18	
9000.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	4728.75	4500.75	20.74	
9100.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	4630.00	4401.89	20.30	
9200.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	4531.30	4303.08	19.86	
9300.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	4432.65	4204.27	19.41	
9400.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	4334.08	4105.48	18.96	
9500.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	4235.56	4006.72	18.51	
9600.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	4137.12	3908.02	18.06	
9700.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	4038.76	3809.40	17.61	
9800.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	3940.48	3710.81	17.16	
9900.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	3842.28	3612.24	16.70	
10000.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	3744.18	3513.72	16.25	
10100.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	3646.19	3415.11	15.78	
10200.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	3548.31	3316.58	15.31	
10300.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	3450.55	3218.05	14.84	
10400.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	3352.92	3119.61	14.37	
10500.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	3255.43	3021.27	13.90	
10600.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	3158.10	2922.98	13.43	
10700.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	3060.95	2824.77	12.96	
10800.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	2963.98	2726.60	12.49	
10900.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	2867.22	2628.56	12.01	
11000.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	2770.70	2530.68	11.54	
11100.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	2674.42	2432.97	11.08	
11200.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	2578.44	2335.46	10.61	
11300.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	2482.76	2238.18	10.15	
11400.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	2387.45	2141.06	9.69	
11500.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	2292.53	2044.05	9.23	
11600.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	2198.06	1947.35	8.77	
11700.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	2104.10	1851.03	8.31	
11800.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	2010.73	1755.02	7.86	
11900.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	1918.03	1658.94	7.40	
12000.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	1826.09	1563.39	6.95	
12100.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	1735.05	1468.49	6.51	
12200.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	1645.05	1374.21	6.07	
12300.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	1556.27	1280.80	5.65	
12400.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	1468.93	1188.54	5.24	
12500.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	1383.30	1097.18	4.83	
12600.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	1299.74	1006.71	4.44	
12700.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	1218.65	918.22	4.06	
12800.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	1140.56	832.48	3.70	
12900.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	1066.15	748.87	3.36	
13000.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	996.22	669.06	3.05	
13100.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	931.79	594.61	2.76	
13200.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	874.08	525.13	2.50	
13300.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	824.50	464.43	2.29	SF(Lo)
13400.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	784.60	413.82	2.12	SF(Lo)
13500.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	755.89	375.39	1.99	SF(Lo)
13600.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	739.70	352.28	1.91	SF(Lo)
13700.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	736.85	345.89	1.88	SF(Lo)
13800.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	747.48	355.83	1.91	SF(Lo)
13900.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	771.05	381.53	1.98	SF(Lo)
14000.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	806.41	422.00	2.10	SF(Lo)
14100.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	852.10	474.68	2.26	SF(Lo)
14200.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	906.57	536.22	2.45	SF(Lo)
14300.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	968.32	606.39	2.68	
14400.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	1036.07	681.44	2.92	

5D Anti-Collision Report

Secondary Well: Tigges 30-34 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
14500.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	1108.70	761.35	3.19	
14600.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	1185.33	845.27	3.49	
14700.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	1265.22	930.82	3.78	
14800.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	1347.80	1019.04	4.10	
14900.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	1432.60	1109.33	4.43	
15000.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	1519.26	1201.24	4.78	
15100.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	1607.46	1293.53	5.12	
15200.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	1696.97	1386.77	5.47	
15300.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	1787.59	1480.94	5.83	
15400.00	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	1879.17	1575.87	6.20	
15440.87	6909.00	0.00	0.00	6942.00	207.29	207.29	270.00	1916.84	1614.85	6.35	
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	0.15	79.79	79.05	108.80	
100.00	100.00	0.00	0.00	100.00	0.11	0.11	0.15	79.79	78.83	83.64	
200.00	200.00	0.00	0.00	200.00	0.34	0.34	0.15	79.79	78.38	56.85	
300.00	300.00	0.00	0.00	300.00	0.56	0.56	0.15	79.79	77.93	43.06	
400.00	400.00	0.00	0.00	400.00	0.79	0.79	0.15	79.79	77.48	34.65	
500.00	500.00	0.00	0.00	500.00	1.01	1.01	0.15	79.79	77.03	28.99	
600.00	600.00	0.00	0.00	600.00	1.24	1.24	0.15	79.79	76.58	24.92	
700.00	700.00	0.00	0.00	700.00	1.46	1.46	0.15	79.79	76.14	21.85	
800.00	800.00	0.00	0.00	800.00	1.69	1.69	0.15	79.79	75.69	19.46	
900.00	900.00	0.00	0.00	900.00	1.91	1.91	0.15	79.79	75.24	17.53	
1000.00	1000.00	0.00	0.00	1000.00	2.14	2.14	0.15	79.79	74.79	15.96	
1100.00	1100.00	0.00	0.00	1100.00	2.36	2.36	0.15	79.79	74.34	14.64	
1200.00	1200.00	0.00	0.00	1200.00	2.58	2.58	0.15	79.79	73.89	13.53	
1300.00	1300.00	0.00	0.00	1300.00	2.81	2.81	0.15	79.79	73.44	12.57	
1400.00	1399.98	0.00	0.00	1399.98	3.03	3.03	251.13	80.33	73.56	11.85	
1500.00	1499.84	0.00	0.00	1499.84	3.26	3.26	247.71	82.18	74.99	11.44	
1600.00	1599.45	0.00	0.00	1599.45	3.48	3.48	242.40	85.87	78.24	11.26	
1700.00	1698.70	0.00	0.00	1698.70	3.71	3.71	235.81	92.17	84.11	11.43	
1800.00	1797.47	0.00	0.00	1797.47	3.93	3.93	228.71	101.84	93.33	11.96	
1900.00	1896.85	1.94	78.00	1896.84	4.14	4.14	222.50	114.91	105.94	12.82	
2000.00	1996.67	3.93	78.00	1996.51	4.35	4.34	218.09	130.47	121.06	13.85	
2100.00	2096.84	5.94	78.00	2096.31	4.57	4.54	215.10	148.00	138.10	14.95	
2200.00	2197.56	7.95	78.00	2196.29	4.80	4.73	213.27	166.06	155.67	15.98	
2300.00	2299.06	9.98	78.00	2296.54	5.05	4.93	212.76	182.62	171.70	16.72	
2400.00	2401.10	12.02	78.00	2396.70	5.34	5.13	213.27	197.54	186.00	17.12	
2500.00	2503.41	14.07	78.00	2496.36	5.67	5.33	214.59	210.88	198.67	17.27	
2600.00	2605.74	16.11	78.00	2595.16	6.04	5.53	216.61	222.83	209.88	17.20	
2700.00	2706.35	17.19	78.00	2691.43	6.47	5.75	219.11	233.82	219.99	16.91	
2800.00	2805.24	17.19	78.00	2785.90	6.92	5.99	221.44	245.04	230.26	16.58	
2900.00	2904.13	17.19	78.00	2880.37	7.40	6.24	223.58	256.63	240.88	16.30	
3000.00	3003.02	17.19	78.00	2974.85	7.89	6.49	225.52	268.54	251.81	16.05	
3100.00	3101.91	17.19	78.00	3069.32	8.41	6.74	227.30	280.73	262.93	15.77	
3200.00	3200.80	17.19	78.00	3163.79	8.93	7.00	228.94	293.17	274.28	15.51	
3300.00	3299.69	17.19	78.00	3258.27	9.47	7.26	230.44	305.83	285.83	15.29	
3400.00	3398.58	17.19	78.00	3352.74	10.02	7.53	231.82	318.67	297.57	15.10	
3500.00	3497.47	17.19	78.00	3447.21	10.57	7.79	233.09	331.69	309.47	14.93	
3600.00	3596.36	17.19	78.00	3541.69	11.13	8.06	234.27	344.86	321.53	14.78	
3700.00	3695.25	17.19	78.00	3636.16	11.70	8.34	235.36	358.15	333.71	14.65	
3800.00	3794.13	17.19	78.00	3730.63	12.28	8.61	236.37	371.57	345.95	14.50	
3900.00	3893.02	17.19	78.00	3825.11	12.85	8.89	237.31	385.09	358.29	14.37	
4000.00	3991.91	17.19	78.00	3919.58	13.43	9.17	238.19	398.71	370.72	14.25	
4100.00	4090.80	17.19	78.00	4014.06	14.02	9.45	239.01	412.42	383.24	14.14	
4200.00	4189.69	17.19	78.00	4108.53	14.61	9.73	239.77	426.20	395.84	14.04	

5D Anti-Collision Report

Secondary Well: Goetzel 32C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
4300.00	4288.58	17.19	78.00	4203.00	15.20	10.01	240.49	440.05	408.51	13.95	
4400.00	4387.47	17.19	78.00	4297.48	15.79	10.30	241.17	453.97	421.25	13.87	
4500.00	4486.36	17.19	78.00	4391.95	16.38	10.58	241.80	467.95	434.04	13.80	
4600.00	4585.25	17.19	78.00	4486.42	16.98	10.87	242.40	481.97	446.88	13.74	
4700.00	4684.14	17.19	78.00	4580.90	17.58	11.15	242.96	496.05	459.78	13.68	
4800.00	4783.02	17.19	78.00	4675.37	18.18	11.44	243.50	510.17	472.72	13.62	
4900.00	4881.91	17.19	78.00	4769.84	18.78	11.73	244.00	524.34	485.71	13.57	
5000.00	4980.80	17.19	78.00	4864.32	19.38	12.02	244.48	538.54	498.73	13.53	
5100.00	5079.69	17.19	78.00	4958.79	19.99	12.31	244.93	552.77	511.78	13.49	
5200.00	5178.58	17.19	78.00	5053.26	20.59	12.60	245.36	567.04	524.87	13.45	
5300.00	5277.47	17.19	78.00	5147.74	21.20	12.89	245.77	581.34	538.00	13.41	
5400.00	5376.36	17.19	78.00	5242.21	21.80	13.19	246.16	595.66	551.14	13.38	
5500.00	5475.25	17.19	78.00	5336.69	22.41	13.48	246.54	610.01	564.31	13.35	
5600.00	5574.14	17.19	78.00	5431.16	23.02	13.77	246.89	624.39	577.49	13.31	
5700.00	5673.03	17.19	78.00	5525.63	23.62	14.06	247.23	638.79	590.69	13.28	
5800.00	5771.92	17.19	78.00	5620.11	24.23	14.36	247.55	653.21	603.92	13.25	
5900.00	5870.80	17.19	78.00	5714.58	24.84	14.65	247.86	667.64	617.16	13.23	
6000.00	5969.69	17.19	78.00	5809.05	25.45	14.95	248.16	682.10	630.43	13.20	
6100.00	6068.58	17.19	78.00	5903.53	26.06	15.24	248.44	696.58	643.71	13.18	
6200.00	6167.47	17.19	78.00	5998.00	26.67	15.54	248.72	711.07	657.01	13.15	
6300.00	6266.03	17.19	78.00	6092.16	27.28	15.83	235.36	725.66	670.50	13.15	
6400.00	6362.56	17.19	78.00	6184.38	27.88	16.12	187.47	740.78	684.72	13.21	
6500.00	6458.48	12.32	74.25	6276.72	28.33	16.40	132.26	757.09	700.35	13.34	
6600.00	6559.28	4.80	52.23	6376.35	28.60	16.46	115.30	774.64	717.57	13.57	
6700.00	6665.52	5.31	297.85	6482.37	28.68	16.19	109.34	793.00	735.93	13.90	
6800.00	6778.03	13.82	278.10	6593.24	28.59	15.55	106.74	811.64	754.88	14.30	
6900.00	6897.59	23.27	273.27	6706.47	28.34	14.52	105.51	829.92	773.72	14.77	
7000.00	7024.78	33.39	271.05	6818.29	27.99	13.12	104.91	847.15	791.67	15.27	
7100.00	7159.73	44.15	269.71	6923.34	27.64	11.48	104.59	862.55	807.77	15.75	
7200.00	7301.85	55.50	268.77	7014.88	27.44	9.94	104.34	875.36	821.06	16.12	
7300.00	7449.66	67.31	268.04	7085.50	27.64	9.12	104.03	884.89	830.50	16.27	
7400.00	7600.72	79.38	267.41	7128.71	28.31	9.58	103.57	890.64	835.30	16.09	
7500.00	7745.81	90.00	266.89	7141.00	29.45	11.04	102.96	892.45	835.37	15.64	
7600.00	7845.79	90.00	266.89	7141.00	30.50	11.51	102.87	893.36	834.29	15.12	
7700.00	7945.78	90.00	266.89	7141.00	31.75	12.01	102.86	894.37	832.94	14.56	
7800.00	8045.78	90.00	266.89	7141.00	33.19	12.53	102.84	895.38	831.24	13.96	
7900.00	8145.77	90.00	266.89	7141.00	34.79	13.07	102.83	896.39	829.21	13.34	
8000.00	8245.77	90.00	266.89	7141.00	36.54	13.62	102.81	897.40	826.91	12.73	
8100.00	8345.76	90.00	266.89	7141.00	38.41	14.20	102.80	898.41	824.27	12.12	
8200.00	8445.76	90.00	266.89	7141.00	40.39	14.79	102.78	899.42	821.42	11.53	
8300.00	8545.75	90.00	266.89	7141.00	42.46	15.39	102.77	900.43	818.39	10.98	
8400.00	8645.75	90.00	266.89	7141.00	44.61	16.00	102.75	901.44	815.21	10.45	
8500.00	8745.74	90.00	266.89	7141.00	46.83	16.62	102.74	902.45	811.89	9.97	
8600.00	8845.74	90.00	266.89	7141.00	49.11	17.25	102.73	903.46	808.46	9.51	
8700.00	8945.73	90.00	266.89	7141.00	51.44	17.89	102.71	904.47	804.93	9.09	
8800.00	9045.72	90.00	266.89	7141.00	53.82	18.54	102.70	905.48	801.30	8.69	
8900.00	9145.72	90.00	266.89	7141.00	56.23	19.19	102.68	906.49	797.60	8.32	
9000.00	9245.71	90.00	266.89	7141.00	58.68	19.84	102.67	907.50	793.83	7.98	
9100.00	9345.71	90.00	266.89	7141.00	61.16	20.51	102.65	908.51	790.00	7.67	
9200.00	9445.70	90.00	266.89	7141.00	63.67	21.17	102.64	909.52	786.12	7.37	
9300.00	9545.70	90.00	266.89	7141.00	66.19	21.85	102.62	910.53	782.19	7.09	
9400.00	9645.69	90.00	266.89	7141.00	68.74	22.52	102.61	911.54	778.22	6.84	
9500.00	9745.69	90.00	266.89	7141.00	71.31	23.20	102.60	912.55	774.22	6.60	
9600.00	9845.68	90.00	266.89	7141.00	73.90	23.88	102.58	913.56	770.18	6.37	
9700.00	9945.68	90.00	266.89	7141.00	76.50	24.57	102.57	914.57	766.11	6.16	
9800.00	10045.67	90.00	266.89	7141.00	79.11	25.25	102.55	915.58	762.01	5.96	
9900.00	10145.67	90.00	266.89	7141.00	81.74	25.95	102.54	916.59	757.89	5.78	
10000.00	10245.66	90.00	266.89	7141.00	84.38	26.64	102.53	917.61	753.74	5.60	

5D Anti-Collision Report

Secondary Well: Goetzel 32C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
10100.00	10345.66	90.00	266.89	7141.00	87.02	27.33	102.51	918.62	749.58	5.43	
10200.00	10445.65	90.00	266.89	7141.00	89.68	28.03	102.50	919.63	745.40	5.28	
10300.00	10545.64	90.00	266.89	7141.00	92.34	28.73	102.48	920.64	741.20	5.13	
10400.00	10645.64	90.00	266.89	7141.00	95.02	29.43	102.47	921.65	736.98	4.99	
10500.00	10745.63	90.00	266.89	7141.00	97.70	30.13	102.46	922.66	732.75	4.86	
10600.00	10845.63	90.00	266.89	7141.00	100.38	30.83	102.44	923.67	728.51	4.73	
10700.00	10945.62	90.00	266.89	7141.00	103.07	31.54	102.43	924.68	724.26	4.61	
10800.00	11045.62	90.00	266.89	7141.00	105.77	32.24	102.41	925.69	719.99	4.50	
10900.00	11145.61	90.00	266.89	7141.00	108.47	32.95	102.40	926.70	715.72	4.39	
11000.00	11245.61	90.00	266.89	7141.00	111.18	33.66	102.39	927.72	711.43	4.29	
11100.00	11345.60	90.00	266.89	7141.00	113.89	34.37	102.37	928.73	707.14	4.19	
11200.00	11445.60	90.00	266.89	7141.00	116.61	35.08	102.36	929.74	702.83	4.10	
11300.00	11545.59	90.00	266.89	7141.00	119.33	35.79	102.35	930.75	698.52	4.01	
11400.00	11645.59	90.00	266.89	7141.00	122.05	36.50	102.33	931.76	694.20	3.92	
11500.00	11745.58	90.00	266.89	7141.00	124.78	37.21	102.32	932.77	689.88	3.84	
11600.00	11845.57	90.00	266.89	7141.00	127.51	37.93	102.31	933.78	685.55	3.76	
11700.00	11945.57	90.00	266.89	7141.00	130.24	38.64	102.29	934.80	681.21	3.69	
11800.00	12045.56	90.00	266.89	7141.00	132.98	39.36	102.28	935.81	676.87	3.61	
11900.00	12145.56	90.00	266.89	7141.00	135.72	40.07	102.26	936.82	672.52	3.54	
12000.00	12245.55	90.00	266.89	7141.00	138.46	40.79	102.25	937.83	668.16	3.48	
12100.00	12345.55	90.00	266.89	7141.00	141.20	41.50	102.24	938.84	663.80	3.41	
12200.00	12445.54	90.00	266.89	7141.00	143.95	42.22	102.22	939.86	659.44	3.35	
12300.00	12545.54	90.00	266.89	7141.00	146.69	42.94	102.21	940.87	655.07	3.29	
12400.00	12645.53	90.00	266.89	7141.00	149.44	43.66	102.20	941.88	650.70	3.23	
12500.00	12745.53	90.00	266.89	7141.00	152.19	44.38	102.18	942.89	646.32	3.18	
12600.00	12845.52	90.00	266.89	7141.00	154.95	45.10	102.17	943.90	641.94	3.13	
12700.00	12945.52	90.00	266.89	7141.00	157.70	45.82	102.16	944.92	637.56	3.07	
12800.00	13045.51	90.00	266.89	7141.00	160.46	46.54	102.14	945.93	633.17	3.02	
12900.00	13145.51	90.00	266.89	7141.00	163.21	47.26	102.13	946.94	628.78	2.98	
13000.00	13245.50	90.00	266.89	7141.00	165.97	47.98	102.12	947.95	624.39	2.93	
13100.00	13345.49	90.00	266.89	7141.00	168.73	48.70	102.11	948.97	619.99	2.88	
13200.00	13445.49	90.00	266.89	7141.00	171.49	49.42	102.09	949.98	615.59	2.84	
13300.00	13545.48	90.00	266.89	7141.00	174.25	50.14	102.08	950.99	611.19	2.80	
13400.00	13645.48	90.00	266.89	7141.00	177.02	50.87	102.07	952.00	606.79	2.76	
13500.00	13745.47	90.00	266.89	7141.00	179.78	51.59	102.05	953.02	602.38	2.72	
13600.00	13845.47	90.00	266.89	7141.00	182.55	52.31	102.04	954.03	597.97	2.68	
13700.00	13945.46	90.00	266.89	7141.00	185.31	53.04	102.03	955.04	593.56	2.64	
13800.00	14045.46	90.00	266.89	7141.00	188.08	53.76	102.01	956.05	589.15	2.61	
13900.00	14145.45	90.00	266.89	7141.00	190.85	54.48	102.00	957.07	584.73	2.57	
14000.00	14245.45	90.00	266.89	7141.00	193.62	55.21	101.99	958.08	580.31	2.54	
14100.00	14345.44	90.00	266.89	7141.00	196.39	55.93	101.98	959.09	575.89	2.50	
14200.00	14445.44	90.00	266.89	7141.00	199.16	56.66	101.96	960.11	571.47	2.47	SF(Lo)
14300.00	14545.43	90.00	266.89	7141.00	201.93	57.38	101.95	961.12	567.04	2.44	SF(Lo)
14400.00	14645.42	90.00	266.89	7141.00	204.71	58.11	101.94	962.13	562.62	2.41	SF(Lo)
14500.00	14745.42	90.00	266.89	7141.00	207.48	58.83	101.92	963.14	558.19	2.38	SF(Lo)
14600.00	14845.41	90.00	266.89	7141.00	210.25	59.56	101.91	964.16	553.76	2.35	SF(Lo)
14700.00	14945.41	90.00	266.89	7141.00	213.03	60.28	101.90	965.17	549.33	2.32	SF(Lo)
14800.00	15045.40	90.00	266.89	7141.00	215.80	61.01	101.89	966.18	544.90	2.29	SF(Lo)
14900.00	15145.40	90.00	266.89	7141.00	218.58	61.74	101.87	967.20	540.46	2.27	SF(Lo)
15000.00	15245.39	90.00	266.89	7141.00	221.35	62.46	101.86	968.21	536.03	2.24	SF(Lo)
15100.00	15345.39	90.00	266.89	7141.00	224.13	63.19	101.85	969.22	531.59	2.21	SF(Lo)
15200.00	15445.38	90.00	266.89	7141.00	226.91	63.91	101.84	970.24	527.15	2.19	SF(Lo)
15300.00	15545.38	90.00	266.89	7141.00	229.69	64.64	101.82	971.25	522.71	2.17	SF(Lo)
15400.00	15644.54	90.00	266.89	7141.00	232.44	65.36	101.81	972.26	518.29	2.14	SF(Lo)
15440.87	15644.54	90.00	266.89	7141.00	232.44	65.36	101.81	973.57	519.09	2.14	SF(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
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)
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	1399.98	0.00	0.00	1399.98	3.03	3.03	250.67	60.30	53.53	8.90	CC (Lo)
1500.00	1499.84	0.00	0.00	1499.84	3.26	3.26	246.16	62.23	55.05	8.66	CC (Lo)
1600.00	1599.45	0.00	0.00	1599.45	3.48	3.48	239.33	66.24	58.63	8.70	
1700.00	1698.70	0.00	0.00	1698.70	3.71	3.71	231.25	73.24	65.18	9.09	
1800.00	1797.47	0.00	0.00	1797.47	3.93	3.93	223.09	83.97	75.47	9.88	
1900.00	1895.62	0.00	0.00	1895.62	4.15	4.15	215.74	98.85	89.90	11.04	
2000.00	1993.06	0.00	0.00	1993.06	4.37	4.37	209.58	117.96	108.54	12.53	
2100.00	2092.75	1.86	85.04	2092.74	4.58	4.58	204.92	140.19	130.34	14.24	
2200.00	2193.67	3.87	85.04	2193.52	4.79	4.78	201.97	162.62	152.32	15.79	
2300.00	2296.00	5.92	85.04	2295.47	5.00	4.97	200.49	182.83	172.08	17.01	
2400.00	2399.52	7.99	85.04	2398.22	5.24	5.17	200.01	200.50	189.28	17.88	
2500.00	2503.97	10.08	85.04	2501.38	5.50	5.37	200.29	215.53	203.80	18.37	
2600.00	2609.10	12.18	85.04	2604.52	5.79	5.57	201.20	227.93	215.65	18.56	
2700.00	2714.61	14.29	85.04	2707.22	6.13	5.77	202.66	237.77	224.88	18.45	
2800.00	2820.22	16.40	85.04	2809.06	6.51	5.97	204.66	245.21	231.64	18.06	
2900.00	2925.66	18.51	85.04	2909.64	6.96	6.17	207.20	250.49	236.15	17.47	
3000.00	3025.50	18.74	85.04	3004.19	7.44	6.41	209.88	254.83	239.61	16.73	
3100.00	3124.70	18.74	85.04	3098.14	7.94	6.66	212.45	259.70	243.51	16.04	
3200.00	3223.90	18.74	85.04	3192.09	8.47	6.91	214.92	265.08	247.89	15.42	
3300.00	3323.11	18.74	85.04	3286.03	9.02	7.16	217.30	270.93	252.65	14.82	
3400.00	3422.31	18.74	85.04	3379.98	9.58	7.42	219.57	277.24	257.82	14.28	
3500.00	3521.52	18.74	85.04	3473.93	10.16	7.69	221.74	283.96	263.36	13.79	
3600.00	3620.72	18.74	85.04	3567.87	10.76	7.96	223.80	291.08	269.29	13.36	
3700.00	3719.92	18.74	85.04	3661.82	11.36	8.23	225.77	298.55	275.51	12.96	
3800.00	3819.13	18.74	85.04	3755.77	11.97	8.51	227.64	306.36	282.07	12.61	
3900.00	3918.33	18.74	85.04	3849.71	12.58	8.79	229.41	314.48	288.92	12.30	
4000.00	4017.53	18.74	85.04	3943.66	13.21	9.07	231.10	322.89	296.03	12.02	
4100.00	4116.74	18.74	85.04	4037.61	13.83	9.35	232.69	331.57	303.41	11.78	
4200.00	4215.94	18.74	85.04	4131.56	14.47	9.64	234.21	340.49	311.03	11.56	
4300.00	4315.14	18.74	85.04	4225.50	15.10	9.92	235.65	349.63	318.84	11.35	
4400.00	4414.35	18.74	85.04	4319.45	15.74	10.21	237.01	358.99	326.87	11.18	
4500.00	4513.55	18.74	85.04	4413.40	16.39	10.50	238.31	368.54	335.09	11.02	
4600.00	4612.75	18.74	85.04	4507.34	17.03	10.80	239.54	378.26	343.51	10.88	
4700.00	4711.96	18.74	85.04	4601.29	17.68	11.09	240.71	388.15	352.10	10.76	
4800.00	4811.16	18.74	85.04	4695.24	18.33	11.39	241.82	398.20	360.82	10.65	
4900.00	4910.37	18.74	85.04	4789.19	18.99	11.68	242.87	408.38	369.68	10.55	
5000.00	5009.57	18.74	85.04	4883.13	19.64	11.98	243.88	418.70	378.68	10.46	
5100.00	5108.77	18.74	85.04	4977.08	20.30	12.28	244.83	429.14	387.81	10.38	
5200.00	5207.98	18.74	85.04	5071.03	20.95	12.58	245.74	439.69	397.05	10.31	
5300.00	5307.18	18.74	85.04	5164.97	21.61	12.88	246.61	450.35	406.40	10.25	
5400.00	5406.38	18.74	85.04	5258.92	22.27	13.18	247.44	461.10	415.83	10.18	
5500.00	5505.59	18.74	85.04	5352.87	22.94	13.48	248.23	471.94	425.35	10.13	
5600.00	5604.79	18.74	85.04	5446.81	23.60	13.78	248.98	482.88	434.96	10.08	
5700.00	5703.99	18.74	85.04	5540.76	24.26	14.09	249.70	493.88	444.66	10.03	

5D Anti-Collision Report

Secondary Well: Goetzel 32N-30B-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
5800.00	5803.20	18.74	85.04	5634.71	24.93	14.39	250.39	504.97	454.44	9.99	
5900.00	5902.40	18.74	85.04	5728.66	25.59	14.70	251.05	516.12	464.29	9.96	
6000.00	6001.61	18.74	85.04	5822.60	26.26	15.00	251.68	527.34	474.22	9.93	
6100.00	6100.81	18.74	85.04	5916.55	26.92	15.31	252.29	538.62	484.21	9.90	
6200.00	6200.01	18.74	85.04	6010.50	27.59	15.61	252.87	549.96	494.26	9.87	
6300.00	6303.71	10.82	83.75	6110.60	28.11	15.92	239.47	561.37	504.65	9.90	
6400.00	6408.15	2.51	73.80	6214.24	28.35	15.89	190.52	573.08	515.88	10.02	
6500.00	6513.04	5.97	272.06	6318.98	28.41	15.54	133.53	584.87	527.56	10.21	
6600.00	6618.33	14.38	268.88	6422.53	28.32	14.89	114.73	596.52	539.40	10.44	
6700.00	6723.96	22.82	268.02	6522.55	28.13	13.96	106.95	607.78	551.07	10.72	
6800.00	6829.82	31.29	267.61	6616.74	27.88	12.83	102.59	618.45	562.28	11.01	
6900.00	6935.81	39.77	267.36	6702.92	27.64	11.59	99.67	628.29	572.69	11.30	
7000.00	7041.82	48.25	267.19	6779.10	27.47	10.38	97.51	637.13	581.98	11.55	
7100.00	7147.71	56.72	267.06	6843.53	27.45	9.41	95.81	644.80	589.84	11.73	
7200.00	7253.35	65.17	266.95	6894.78	27.64	8.89	94.44	651.15	596.00	11.81	
7300.00	7358.59	73.59	266.85	6931.81	28.06	9.01	93.32	656.06	600.25	11.75	
7400.00	7463.29	81.96	266.77	6953.96	28.73	9.74	92.43	659.45	602.47	11.57	
7500.00	7567.19	90.00	266.69	6961.00	29.60	10.90	91.74	661.27	602.69	11.29	
7600.00	7667.17	90.00	266.69	6961.00	30.69	11.38	91.64	662.01	601.40	10.92	
7700.00	7767.17	90.00	266.69	6961.00	31.96	11.89	91.64	662.69	599.67	10.52	
7800.00	7867.17	90.00	266.69	6961.00	33.42	12.42	91.64	663.36	597.59	10.09	
7900.00	7967.17	90.00	266.69	6961.00	35.04	12.97	91.64	664.04	595.05	9.63	
8000.00	8067.16	90.00	266.69	6961.00	36.81	13.53	91.64	664.72	592.23	9.17	
8100.00	8167.16	90.00	266.69	6961.00	38.69	14.12	91.64	665.40	589.16	8.73	
8200.00	8267.16	90.00	266.69	6961.00	40.68	14.71	91.63	666.08	585.89	8.31	
8300.00	8367.16	90.00	266.69	6961.00	42.76	15.32	91.63	666.76	582.43	7.91	
8400.00	8467.15	90.00	266.69	6961.00	44.92	15.94	91.63	667.44	578.81	7.53	
8500.00	8567.15	90.00	266.69	6961.00	47.15	16.56	91.63	668.12	575.06	7.18	
8600.00	8667.15	90.00	266.69	6961.00	49.43	17.20	91.63	668.80	571.19	6.85	
8700.00	8767.15	90.00	266.69	6961.00	51.77	17.84	91.63	669.48	567.21	6.55	
8800.00	8867.14	90.00	266.69	6961.00	54.15	18.49	91.62	670.16	563.14	6.26	
8900.00	8967.14	90.00	266.69	6961.00	56.57	19.15	91.62	670.84	559.00	6.00	
9000.00	9067.14	90.00	266.69	6961.00	59.02	19.81	91.62	671.52	554.78	5.75	
9100.00	9167.14	90.00	266.69	6961.00	61.50	20.48	91.62	672.20	550.51	5.52	
9200.00	9267.14	90.00	266.69	6961.00	64.01	21.15	91.62	672.88	546.18	5.31	
9300.00	9367.13	90.00	266.69	6961.00	66.54	21.82	91.62	673.56	541.80	5.11	
9400.00	9467.13	90.00	266.69	6961.00	69.09	22.50	91.61	674.24	537.39	4.93	
9500.00	9567.13	90.00	266.69	6961.00	71.66	23.18	91.61	674.92	532.93	4.75	
9600.00	9667.13	90.00	266.69	6961.00	74.24	23.87	91.61	675.60	528.44	4.59	
9700.00	9767.12	90.00	266.69	6961.00	76.84	24.55	91.61	676.28	523.92	4.44	
9800.00	9867.12	90.00	266.69	6961.00	79.46	25.24	91.61	676.96	519.38	4.30	
9900.00	9967.12	90.00	266.69	6961.00	82.08	25.94	91.61	677.64	514.81	4.16	
10000.00	10067.12	90.00	266.69	6961.00	84.72	26.63	91.61	678.32	510.22	4.04	
10100.00	10167.11	90.00	266.69	6961.00	87.37	27.33	91.60	679.00	505.60	3.92	
10200.00	10267.11	90.00	266.69	6961.00	90.02	28.03	91.60	679.68	500.97	3.80	
10300.00	10367.11	90.00	266.69	6961.00	92.69	28.73	91.60	680.36	496.32	3.70	
10400.00	10467.11	90.00	266.69	6961.00	95.36	29.43	91.60	681.04	491.66	3.60	
10500.00	10567.11	90.00	266.69	6961.00	98.04	30.13	91.60	681.72	486.99	3.50	
10600.00	10667.10	90.00	266.69	6961.00	100.73	30.84	91.60	682.40	482.30	3.41	
10700.00	10767.10	90.00	266.69	6961.00	103.42	31.54	91.59	683.08	477.59	3.32	
10800.00	10867.10	90.00	266.69	6961.00	106.12	32.25	91.59	683.76	472.88	3.24	
10900.00	10967.10	90.00	266.69	6961.00	108.82	32.96	91.59	684.43	468.16	3.16	
11000.00	11067.09	90.00	266.69	6961.00	111.52	33.67	91.59	685.11	463.43	3.09	
11100.00	11167.09	90.00	266.69	6961.00	114.24	34.38	91.59	685.79	458.69	3.02	
11200.00	11267.09	90.00	266.69	6961.00	116.95	35.09	91.59	686.47	453.94	2.95	
11300.00	11367.09	90.00	266.69	6961.00	119.67	35.80	91.58	687.15	449.18	2.89	
11400.00	11467.08	90.00	266.69	6961.00	122.39	36.52	91.58	687.83	444.42	2.83	
11500.00	11567.08	90.00	266.69	6961.00	125.12	37.23	91.58	688.51	439.65	2.77	

5D Anti-Collision Report

Secondary Well: Goetzel 32N-30B-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
11600.00	11667.08	90.00	266.69	6961.00	127.85	37.94	91.58	689.19	434.87	2.71	
11700.00	11767.08	90.00	266.69	6961.00	130.58	38.66	91.58	689.87	430.09	2.66	
11800.00	11867.08	90.00	266.69	6961.00	133.32	39.38	91.58	690.55	425.30	2.60	
11900.00	11967.07	90.00	266.69	6961.00	136.05	40.09	91.58	691.23	420.51	2.55	
12000.00	12067.07	90.00	266.69	6961.00	138.79	40.81	91.57	691.91	415.71	2.51	
12100.00	12167.07	90.00	266.69	6961.00	141.53	41.53	91.57	692.59	410.91	2.46	SF(Lo)
12200.00	12267.07	90.00	266.69	6961.00	144.28	42.25	91.57	693.27	406.10	2.41	SF(Lo)
12300.00	12367.06	90.00	266.69	6961.00	147.03	42.97	91.57	693.95	401.29	2.37	SF(Lo)
12400.00	12467.06	90.00	266.69	6961.00	149.77	43.68	91.57	694.63	396.48	2.33	SF(Lo)
12500.00	12567.06	90.00	266.69	6961.00	152.52	44.40	91.57	695.31	391.66	2.29	SF(Lo)
12600.00	12667.06	90.00	266.69	6961.00	155.27	45.12	91.56	695.99	386.84	2.25	SF(Lo)
12700.00	12767.05	90.00	266.69	6961.00	158.03	45.85	91.56	696.67	382.02	2.21	SF(Lo)
12800.00	12867.05	90.00	266.69	6961.00	160.78	46.57	91.56	697.35	377.19	2.18	SF(Lo)
12900.00	12967.05	90.00	266.69	6961.00	163.54	47.29	91.56	698.03	372.36	2.14	SF(Lo)
13000.00	13067.05	90.00	266.69	6961.00	166.30	48.01	91.56	698.71	367.53	2.11	SF(Lo)
13100.00	13167.04	90.00	266.69	6961.00	169.06	48.73	91.56	699.39	362.69	2.08	SF(Lo)
13200.00	13267.04	90.00	266.69	6961.00	171.82	49.45	91.56	700.07	357.85	2.05	SF(Lo)
13300.00	13367.04	90.00	266.69	6961.00	174.58	50.18	91.55	700.75	353.01	2.02	SF(Lo)
13400.00	13467.04	90.00	266.69	6961.00	177.34	50.90	91.55	701.43	348.17	1.99	SF(Lo)
13500.00	13567.04	90.00	266.69	6961.00	180.10	51.62	91.55	702.11	343.32	1.96	SF(Lo)
13600.00	13667.03	90.00	266.69	6961.00	182.87	52.35	91.55	702.79	338.48	1.93	SF(Lo)
13700.00	13767.03	90.00	266.69	6961.00	185.63	53.07	91.55	703.47	333.63	1.90	SF(Lo)
13800.00	13867.03	90.00	266.69	6961.00	188.40	53.80	91.55	704.15	328.78	1.88	SF(Lo)
13900.00	13967.03	90.00	266.69	6961.00	191.17	54.52	91.54	704.83	323.93	1.85	SF(Lo)
14000.00	14067.02	90.00	266.69	6961.00	193.94	55.25	91.54	705.51	319.07	1.83	SF(Lo)
14100.00	14167.02	90.00	266.69	6961.00	196.71	55.97	91.54	706.19	314.22	1.80	SF(Lo)
14200.00	14267.02	90.00	266.69	6961.00	199.48	56.70	91.54	706.86	309.36	1.78	SF(Lo)
14300.00	14367.02	90.00	266.69	6961.00	202.25	57.42	91.54	707.54	304.50	1.76	SF(Lo)
14400.00	14467.01	90.00	266.69	6961.00	205.02	58.15	91.54	708.22	299.64	1.73	SF(Lo)
14500.00	14567.01	90.00	266.69	6961.00	207.79	58.87	91.54	708.90	294.78	1.71	SF(Lo)
14600.00	14667.01	90.00	266.69	6961.00	210.56	59.60	91.53	709.58	289.91	1.69	SF(Lo)
14700.00	14767.01	90.00	266.69	6961.00	213.34	60.32	91.53	710.26	285.05	1.67	SF(Lo)
14800.00	14867.01	90.00	266.69	6961.00	216.11	61.05	91.53	710.94	280.18	1.65	SF(Lo)
14900.00	14967.00	90.00	266.69	6961.00	218.89	61.78	91.53	711.62	275.32	1.63	SF(Lo)
15000.00	15067.00	90.00	266.69	6961.00	221.66	62.50	91.53	712.30	270.45	1.61	SF(Lo)
15100.00	15167.00	90.00	266.69	6961.00	224.44	63.23	91.53	712.98	265.58	1.59	SF(Lo)
15200.00	15267.00	90.00	266.69	6961.00	227.21	63.96	91.53	713.66	260.71	1.58	SF(Lo)
15300.00	15366.99	90.00	266.69	6961.00	229.99	64.68	91.52	714.34	255.84	1.56	SF(Lo)
15400.00	15466.99	90.00	266.69	6961.00	232.77	65.41	91.52	715.02	250.97	1.54	SF(Lo)
15440.87	15473.86	90.00	266.69	6961.00	232.96	65.46	91.52	716.11	251.49	1.54	SF(Lo)
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	0.35	39.71	38.98	54.16	CC (Lo)
100.00	100.00	0.00	0.00	100.00	0.11	0.11	0.35	39.71	38.76	41.63	CC (Lo)
200.00	200.00	0.00	0.00	200.00	0.34	0.34	0.35	39.71	38.31	28.30	CC (Lo)
300.00	300.00	0.00	0.00	300.00	0.56	0.56	0.35	39.71	37.86	21.43	CC (Lo)
400.00	400.00	0.00	0.00	400.00	0.79	0.79	0.35	39.71	37.41	17.25	CC (Lo)
500.00	500.00	0.00	0.00	500.00	1.01	1.01	0.35	39.71	36.96	14.43	CC (Lo)
600.00	600.00	0.00	0.00	600.00	1.24	1.24	0.35	39.71	36.51	12.40	CC (Lo)
700.00	700.00	0.00	0.00	700.00	1.46	1.46	0.35	39.71	36.06	10.88	CC (Lo)
800.00	800.00	0.00	0.00	800.00	1.69	1.69	0.35	39.71	35.61	9.68	CC (Lo)
900.00	900.00	0.00	0.00	900.00	1.91	1.91	0.35	39.71	35.16	8.73	CC (Lo)
1000.00	1000.00	0.00	0.00	1000.00	2.14	2.14	0.35	39.71	34.71	7.94	CC (Lo)
1100.00	1100.00	0.00	0.00	1100.00	2.36	2.36	0.35	39.71	34.26	7.29	CC (Lo)
1200.00	1200.00	0.00	0.00	1200.00	2.58	2.58	0.35	39.71	33.81	6.73	CC (Lo)
1300.00	1300.00	0.00	0.00	1300.00	2.81	2.81	0.35	39.71	33.36	6.26	CC (Lo)

5D Anti-Collision Report

Secondary Well: Goetzel 12N-30C-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
1400.00	1399.98	0.00	0.00	1399.98	3.03	3.03	250.15	40.27	33.49	5.94	CC (Lo)
1500.00	1499.84	0.00	0.00	1499.84	3.26	3.26	243.52	42.34	35.15	5.89	CC (Lo)
1600.00	1599.45	0.00	0.00	1599.45	3.48	3.48	234.04	46.88	39.27	6.16	CC (Lo)
1700.00	1698.70	0.00	0.00	1698.70	3.71	3.71	223.85	54.96	46.90	6.82	CC (Lo)
1800.00	1798.94	1.98	92.75	1798.92	3.92	3.91	215.74	66.08	57.60	7.79	
1900.00	1899.63	3.99	92.75	1899.47	4.12	4.11	210.58	78.68	69.78	8.84	
2000.00	2000.78	6.02	92.75	2000.23	4.33	4.30	207.37	92.23	82.90	9.89	
2100.00	2102.36	8.05	92.75	2101.04	4.57	4.50	205.43	106.44	96.66	10.88	
2200.00	2204.54	10.09	92.75	2201.93	4.82	4.69	204.52	119.99	109.73	11.69	
2300.00	2307.43	12.15	92.75	2302.89	5.12	4.89	204.78	130.83	120.05	12.13	
2400.00	2410.80	14.22	92.75	2403.53	5.46	5.09	205.98	138.94	127.58	12.23	
2500.00	2514.36	16.29	92.75	2503.44	5.85	5.30	208.04	144.42	132.44	12.06	
2600.00	2615.22	16.91	92.75	2599.99	6.29	5.53	210.63	148.13	135.40	11.63	
2700.00	2714.94	16.91	92.75	2695.39	6.75	5.77	213.11	152.02	138.45	11.21	
2800.00	2814.65	16.91	92.75	2790.79	7.24	6.01	215.46	156.18	141.76	10.83	
2900.00	2914.36	16.91	92.75	2886.20	7.74	6.26	217.69	160.59	145.23	10.45	
3000.00	3014.07	16.91	92.75	2981.60	8.26	6.52	219.80	165.22	148.84	10.09	
3100.00	3113.79	16.91	92.75	3077.00	8.80	6.78	221.79	170.07	152.66	9.77	
3200.00	3213.50	16.91	92.75	3172.40	9.35	7.04	223.66	175.12	156.66	9.49	
3300.00	3313.21	16.91	92.75	3267.80	9.90	7.31	225.44	180.34	160.79	9.23	
3400.00	3412.92	16.91	92.75	3363.21	10.46	7.58	227.10	185.72	165.01	8.97	
3500.00	3512.64	16.91	92.75	3458.61	11.03	7.85	228.68	191.25	169.38	8.74	
3600.00	3612.35	16.91	92.75	3554.01	11.61	8.12	230.16	196.92	173.88	8.55	
3700.00	3712.06	16.91	92.75	3649.41	12.18	8.40	231.57	202.71	178.50	8.37	
3800.00	3811.77	16.91	92.75	3744.82	12.77	8.68	232.89	208.62	183.24	8.22	
3900.00	3911.49	16.91	92.75	3840.22	13.35	8.96	234.14	214.63	188.08	8.09	
4000.00	4011.20	16.91	92.75	3935.62	13.94	9.24	235.32	220.74	192.97	7.95	
4100.00	4110.91	16.91	92.75	4031.02	14.53	9.52	236.44	226.94	197.91	7.82	
4200.00	4210.62	16.91	92.75	4126.42	15.13	9.81	237.50	233.22	202.94	7.70	
4300.00	4310.34	16.91	92.75	4221.83	15.73	10.09	238.50	239.57	208.05	7.60	
4400.00	4410.05	16.91	92.75	4317.23	16.32	10.38	239.45	245.99	213.23	7.51	
4500.00	4509.76	16.91	92.75	4412.63	16.92	10.67	240.35	252.48	218.47	7.42	
4600.00	4609.47	16.91	92.75	4508.03	17.53	10.95	241.20	259.03	223.78	7.35	
4700.00	4709.19	16.91	92.75	4603.44	18.13	11.24	242.02	265.63	229.14	7.28	
4800.00	4808.90	16.91	92.75	4698.84	18.73	11.53	242.79	272.28	234.56	7.22	
4900.00	4908.61	16.91	92.75	4794.24	19.34	11.82	243.53	278.98	240.02	7.16	
5000.00	5008.32	16.91	92.75	4889.64	19.94	12.12	244.23	285.72	245.54	7.11	
5100.00	5108.04	16.91	92.75	4985.05	20.55	12.41	244.90	292.50	251.10	7.06	
5200.00	5207.75	16.91	92.75	5080.45	21.16	12.70	245.54	299.33	256.69	7.02	
5300.00	5307.46	16.91	92.75	5175.85	21.77	12.99	246.15	306.18	262.33	6.98	
5400.00	5407.17	16.91	92.75	5271.25	22.38	13.29	246.74	313.07	267.98	6.94	
5500.00	5506.89	16.91	92.75	5366.65	22.99	13.58	247.30	320.00	273.65	6.90	
5600.00	5606.60	16.91	92.75	5462.06	23.60	13.88	247.83	326.95	279.36	6.87	
5700.00	5706.31	16.91	92.75	5557.46	24.21	14.17	248.35	333.92	285.09	6.84	
5800.00	5806.02	16.91	92.75	5652.86	24.82	14.47	248.84	340.93	290.83	6.81	
5900.00	5905.74	16.91	92.75	5748.26	25.43	14.76	249.31	347.95	296.60	6.78	
6000.00	6005.45	16.91	92.75	5843.67	26.05	15.06	249.76	355.01	302.39	6.75	
6100.00	6105.16	16.91	92.75	5939.07	26.66	15.35	250.20	362.08	308.21	6.72	
6200.00	6204.87	16.91	92.75	6034.47	27.27	15.65	250.62	369.17	314.04	6.70	
6300.00	6305.34	13.14	94.60	6131.01	27.83	15.96	237.98	376.49	320.21	6.69	
6400.00	6407.52	5.17	107.47	6231.82	28.11	16.05	190.15	384.22	327.28	6.75	
6500.00	6510.78	3.89	238.45	6334.93	28.21	15.82	134.26	392.16	334.95	6.85	
6600.00	6615.09	11.91	257.91	6438.18	28.14	15.28	116.51	400.11	342.97	7.00	
6700.00	6720.40	20.27	261.69	6539.28	27.94	14.45	109.72	407.89	351.12	7.18	
6800.00	6826.64	28.75	263.32	6635.86	27.67	13.38	106.26	415.33	359.11	7.39	
6900.00	6933.70	37.30	264.26	6725.54	27.37	12.14	104.16	422.24	366.68	7.60	
7000.00	7041.42	45.90	264.90	6806.02	27.13	10.87	102.70	428.46	373.51	7.80	
7100.00	7149.65	54.55	265.37	6875.18	27.01	9.75	101.60	433.86	379.33	7.96	

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
7200.00	7258.17	63.23	265.75	6931.20	27.10	9.02	100.70	438.31	383.83	8.05	
7300.00	7366.77	71.91	266.08	6972.59	27.44	8.92	99.93	441.72	386.82	8.04	
7400.00	7475.24	80.59	266.37	6998.35	28.06	9.52	99.25	444.03	388.14	7.94	
7500.00	7583.34	89.23	266.66	7007.94	28.92	10.67	98.64	445.21	387.81	7.76	
7600.00	7684.03	90.00	266.68	7008.00	29.95	11.22	98.51	445.85	386.44	7.51	
7700.00	7784.03	90.00	266.68	7008.00	31.18	11.71	98.50	446.50	384.72	7.23	
7800.00	7884.03	90.00	266.68	7008.00	32.61	12.23	98.49	447.16	382.63	6.93	
7900.00	7984.03	90.00	266.68	7008.00	34.20	12.77	98.48	447.82	380.22	6.62	
8000.00	8084.02	90.00	266.68	7008.00	35.95	13.32	98.46	448.48	377.43	6.31	
8100.00	8184.02	90.00	266.68	7008.00	37.82	13.90	98.45	449.13	374.38	6.01	
8200.00	8284.02	90.00	266.68	7008.00	39.79	14.48	98.44	449.79	371.13	5.72	
8300.00	8384.02	90.00	266.68	7008.00	41.87	15.08	98.43	450.45	367.69	5.44	
8400.00	8484.02	90.00	266.68	7008.00	44.02	15.69	98.41	451.11	364.10	5.18	
8500.00	8584.01	90.00	266.68	7008.00	46.24	16.32	98.40	451.76	360.36	4.94	
8600.00	8684.01	90.00	266.68	7008.00	48.52	16.95	98.39	452.42	356.51	4.72	
8700.00	8784.01	90.00	266.68	7008.00	50.86	17.58	98.38	453.08	352.56	4.51	
8800.00	8884.01	90.00	266.68	7008.00	53.24	18.23	98.36	453.74	348.52	4.31	
8900.00	8984.00	90.00	266.68	7008.00	55.65	18.88	98.35	454.40	344.40	4.13	
9000.00	9084.00	90.00	266.68	7008.00	58.11	19.54	98.34	455.05	340.21	3.96	
9100.00	9184.00	90.00	266.68	7008.00	60.59	20.20	98.33	455.71	335.96	3.81	
9200.00	9284.00	90.00	266.68	7008.00	63.09	20.87	98.32	456.37	331.66	3.66	
9300.00	9384.00	90.00	266.68	7008.00	65.63	21.54	98.30	457.03	327.31	3.52	
9400.00	9483.99	90.00	266.68	7008.00	68.18	22.22	98.29	457.69	322.92	3.40	
9500.00	9583.99	90.00	266.68	7008.00	70.75	22.90	98.28	458.34	318.49	3.28	
9600.00	9683.99	90.00	266.68	7008.00	73.34	23.58	98.27	459.00	314.03	3.17	
9700.00	9783.99	90.00	266.68	7008.00	75.94	24.27	98.26	459.66	309.54	3.06	
9800.00	9883.98	90.00	266.68	7008.00	78.56	24.95	98.24	460.32	305.02	2.96	
9900.00	9983.98	90.00	266.68	7008.00	81.18	25.64	98.23	460.98	300.48	2.87	
10000.00	10083.98	90.00	266.68	7008.00	83.82	26.34	98.22	461.63	295.91	2.79	
10100.00	10183.98	90.00	266.68	7008.00	86.47	27.03	98.21	462.29	291.32	2.70	
10200.00	10283.98	90.00	266.68	7008.00	89.13	27.73	98.20	462.95	286.72	2.63	
10300.00	10383.97	90.00	266.68	7008.00	91.80	28.43	98.18	463.61	282.10	2.55	
10400.00	10483.97	90.00	266.68	7008.00	94.47	29.13	98.17	464.27	277.46	2.49	SF(Lo)
10500.00	10583.97	90.00	266.68	7008.00	97.15	29.83	98.16	464.93	272.81	2.42	SF(Lo)
10600.00	10683.97	90.00	266.68	7008.00	99.84	30.54	98.15	465.58	268.15	2.36	SF(Lo)
10700.00	10783.96	90.00	266.68	7008.00	102.53	31.24	98.14	466.24	263.47	2.30	SF(Lo)
10800.00	10883.96	90.00	266.68	7008.00	105.23	31.95	98.13	466.90	258.79	2.24	SF(Lo)
10900.00	10983.96	90.00	266.68	7008.00	107.93	32.66	98.12	467.56	254.09	2.19	SF(Lo)
11000.00	11083.96	90.00	266.68	7008.00	110.64	33.36	98.10	468.22	249.38	2.14	SF(Lo)
11100.00	11183.96	90.00	266.68	7008.00	113.35	34.07	98.09	468.88	244.67	2.09	SF(Lo)
11200.00	11283.95	90.00	266.68	7008.00	116.07	34.78	98.08	469.53	239.94	2.05	SF(Lo)
11300.00	11383.95	90.00	266.68	7008.00	118.79	35.50	98.07	470.19	235.21	2.00	SF(Lo)
11400.00	11483.95	90.00	266.68	7008.00	121.52	36.21	98.06	470.85	230.47	1.96	SF(Lo)
11500.00	11583.95	90.00	266.68	7008.00	124.24	36.92	98.05	471.51	225.73	1.92	SF(Lo)
11600.00	11683.94	90.00	266.68	7008.00	126.97	37.64	98.04	472.17	220.98	1.88	SF(Lo)
11700.00	11783.94	90.00	266.68	7008.00	129.71	38.35	98.02	472.83	216.22	1.84	SF(Lo)
11800.00	11883.94	90.00	266.68	7008.00	132.44	39.07	98.01	473.48	211.46	1.81	SF(Lo)
11900.00	11983.94	90.00	266.68	7008.00	135.18	39.78	98.00	474.14	206.69	1.77	SF(Lo)
12000.00	12083.94	90.00	266.68	7008.00	137.92	40.50	97.99	474.80	201.91	1.74	SF(Lo)
12100.00	12183.93	90.00	266.68	7008.00	140.67	41.22	97.98	475.46	197.13	1.71	SF(Lo)
12200.00	12283.93	90.00	266.68	7008.00	143.41	41.93	97.97	476.12	192.35	1.68	SF(Lo)
12300.00	12383.93	90.00	266.68	7008.00	146.16	42.65	97.96	476.78	187.56	1.65	SF(Lo)
12400.00	12483.93	90.00	266.68	7008.00	148.91	43.37	97.95	477.44	182.77	1.62	SF(Lo)
12500.00	12583.93	90.00	266.68	7008.00	151.66	44.09	97.94	478.09	177.98	1.59	SF(Lo)
12600.00	12683.92	90.00	266.68	7008.00	154.41	44.81	97.92	478.75	173.18	1.57	SF(Lo)
12700.00	12783.92	90.00	266.68	7008.00	157.16	45.53	97.91	479.41	168.38	1.54	SF(Lo)
12800.00	12883.92	90.00	266.68	7008.00	159.92	46.25	97.90	480.07	163.57	1.52	SF(Lo)
12900.00	12983.92	90.00	266.68	7008.00	162.68	46.97	97.89	480.73	158.77	1.49	SF(Med)

5D Anti-Collision Report

Secondary Well: Goetzel 12N-30C-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
13000.00	13083.91	90.00	266.68	7008.00	165.44	47.69	97.88	481.39	153.95	1.47	SF(Med)
13100.00	13183.91	90.00	266.68	7008.00	168.20	48.42	97.87	482.05	149.14	1.45	SF(Med)
13200.00	13283.91	90.00	266.68	7008.00	170.96	49.14	97.86	482.70	144.32	1.43	SF(Med)
13300.00	13383.91	90.00	266.68	7008.00	173.72	49.86	97.85	483.36	139.51	1.41	SF(Med)
13400.00	13483.91	90.00	266.68	7008.00	176.48	50.58	97.84	484.02	134.68	1.39	SF(Med)
13500.00	13583.90	90.00	266.68	7008.00	179.25	51.31	97.83	484.68	129.86	1.37	SF(Med)
13600.00	13683.90	90.00	266.68	7008.00	182.01	52.03	97.82	485.34	125.03	1.35	SF(Med)
13700.00	13783.90	90.00	266.68	7008.00	184.78	52.75	97.81	486.00	120.21	1.33	SF(Med)
13800.00	13883.90	90.00	266.68	7008.00	187.55	53.48	97.79	486.66	115.38	1.31	SF(Med)
13900.00	13983.89	90.00	266.68	7008.00	190.31	54.20	97.78	487.32	110.54	1.29	SF(Med)
14000.00	14083.89	90.00	266.68	7008.00	193.08	54.93	97.77	487.97	105.71	1.28	SF(Med)
14100.00	14183.89	90.00	266.68	7008.00	195.85	55.65	97.76	488.63	100.87	1.26	SF(Med)
14200.00	14283.89	90.00	266.68	7008.00	198.62	56.38	97.75	489.29	96.03	1.24	SF(Med)
14300.00	14383.89	90.00	266.68	7008.00	201.40	57.10	97.74	489.95	91.19	1.23	SF(Med)
14400.00	14483.88	90.00	266.68	7008.00	204.17	57.83	97.73	490.61	86.35	1.21	SF(Med)
14500.00	14583.88	90.00	266.68	7008.00	206.94	58.55	97.72	491.27	81.51	1.20	SF(Med)
14600.00	14683.88	90.00	266.68	7008.00	209.71	59.28	97.71	491.93	76.67	1.18	SF(Med)
14700.00	14783.88	90.00	266.68	7008.00	212.49	60.00	97.70	492.59	71.82	1.17	SF(Med)
14800.00	14883.87	90.00	266.68	7008.00	215.26	60.73	97.69	493.25	66.97	1.16	SF(Med)
14900.00	14983.87	90.00	266.68	7008.00	218.04	61.46	97.68	493.91	62.12	1.14	SF(Med)
15000.00	15083.87	90.00	266.68	7008.00	220.81	62.18	97.67	494.56	57.27	1.13	SF(Med)
15100.00	15183.87	90.00	266.68	7008.00	223.59	62.91	97.66	495.22	52.42	1.12	SF(Med)
15200.00	15283.87	90.00	266.68	7008.00	226.37	63.64	97.65	495.88	47.57	1.11	SF(Med)
15300.00	15383.86	90.00	266.68	7008.00	229.14	64.36	97.64	496.54	42.72	1.09	SF(Med)
15400.00	15483.86	90.00	266.68	7008.00	231.92	65.09	97.63	497.20	37.86	1.08	SF(Med)
15440.87	15501.26	90.00	266.68	7008.00	232.41	65.22	97.63	498.02	37.89	1.08	SF(Med)
Secondary Well: Goetzel 12N-30A-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	20.04	19.31	27.33	CC (Med)
100.00	100.00	0.00	0.00	100.00	0.11	0.11	0.35	20.04	19.08	21.01	CC (Med)
200.00	200.00	0.00	0.00	200.00	0.34	0.34	0.35	20.04	18.64	14.28	CC (Med)
300.00	300.00	0.00	0.00	300.00	0.56	0.56	0.35	20.04	18.19	10.81	CC (Med)
400.00	400.00	0.00	0.00	400.00	0.79	0.79	0.35	20.04	17.74	8.70	CC (Med)
500.00	500.00	0.00	0.00	500.00	1.01	1.01	0.35	20.04	17.29	7.28	CC (Med)
600.00	600.00	0.00	0.00	600.00	1.24	1.24	0.35	20.04	16.84	6.26	CC (Med)
700.00	700.00	0.00	0.00	700.00	1.46	1.46	0.35	20.04	16.39	5.49	CC (Med)
800.00	800.00	0.00	0.00	800.00	1.69	1.69	0.35	20.04	15.94	4.89	CC (Med)
900.00	900.00	0.00	0.00	900.00	1.91	1.91	0.35	20.04	15.49	4.40	CC (Med)
1000.00	1000.00	0.00	0.00	1000.00	2.14	2.14	0.35	20.04	15.04	4.01	CC (Med)
1100.00	1100.00	0.00	0.00	1100.00	2.36	2.36	0.35	20.04	14.59	3.68	CC (Med)
1200.00	1200.00	0.00	0.00	1200.00	2.58	2.58	0.35	20.04	14.14	3.40	CC (Med)
1300.00	1300.00	0.00	0.00	1300.00	2.81	2.81	0.35	20.04	13.69	3.16	CC (Med)
1400.00	1399.98	0.00	0.00	1399.98	3.03	3.03	247.88	20.63	13.86	3.05	CC (Med)
1500.00	1500.02	1.00	100.92	1500.02	3.25	3.25	236.77	22.92	15.74	3.19	CC (Med)
1600.00	1600.33	3.01	100.92	1600.26	3.45	3.44	227.75	26.48	18.91	3.50	CC (Med)
1700.00	1700.81	5.02	100.92	1700.49	3.65	3.63	221.57	30.83	22.86	3.87	CC (Med)
1800.00	1801.47	7.03	100.92	1800.59	3.87	3.83	217.51	35.71	27.30	4.25	CC (Lo)
1900.00	1902.31	9.05	100.92	1900.43	4.12	4.02	214.92	40.96	32.10	4.63	CC (Lo)
2000.00	2003.31	11.07	100.92	1999.88	4.39	4.22	213.38	46.49	37.17	4.99	CC (Lo)
2100.00	2104.48	13.09	100.92	2098.81	4.71	4.42	212.58	52.27	42.44	5.32	CC (Lo)
2200.00	2205.86	15.12	100.92	2197.12	5.08	4.63	212.96	57.16	46.76	5.49	CC (Lo)
2300.00	2307.17	16.88	100.92	2294.44	5.51	4.84	215.46	59.44	48.36	5.37	CC (Lo)
2400.00	2407.10	16.88	100.92	2390.07	5.98	5.08	218.61	60.86	49.00	5.13	CC (Lo)
2500.00	2507.04	16.88	100.92	2485.70	6.47	5.33	221.62	62.46	49.73	4.91	CC (Lo)
2600.00	2606.97	16.88	100.92	2581.33	6.98	5.58	224.47	64.23	50.56	4.70	CC (Lo)
2700.00	2706.91	16.88	100.92	2676.95	7.52	5.84	227.16	66.15	51.47	4.51	

5D Anti-Collision Report

Secondary Well: Goetzel 12N-30A-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
2800.00	2806.84	16.88	100.92	2772.58	8.06	6.10	229.69	68.20	52.44	4.33	
2900.00	2906.78	16.88	100.92	2868.21	8.62	6.37	232.07	70.38	53.52	4.17	
3000.00	3006.71	16.88	100.92	2963.84	9.18	6.64	234.31	72.67	54.65	4.03	
3100.00	3106.65	16.88	100.92	3059.46	9.75	6.91	236.40	75.07	55.89	3.91	
3200.00	3206.58	16.88	100.92	3155.09	10.33	7.19	238.36	77.56	57.17	3.80	
3300.00	3306.52	16.88	100.92	3250.72	10.91	7.46	240.20	80.13	58.53	3.71	
3400.00	3406.45	16.88	100.92	3346.35	11.50	7.74	241.93	82.79	59.97	3.63	
3500.00	3506.39	16.88	100.92	3441.97	12.09	8.02	243.54	85.51	61.45	3.55	
3600.00	3606.32	16.88	100.92	3537.60	12.69	8.31	245.05	88.30	62.99	3.49	
3700.00	3706.26	16.88	100.92	3633.23	13.28	8.59	246.47	91.14	64.59	3.43	
3800.00	3806.19	16.88	100.92	3728.86	13.88	8.88	247.81	94.04	66.25	3.38	
3900.00	3906.12	16.88	100.92	3824.48	14.48	9.17	249.06	96.98	67.92	3.34	
4000.00	4006.06	16.88	100.92	3920.11	15.09	9.45	250.24	99.97	69.64	3.30	
4100.00	4105.99	16.88	100.92	4015.74	15.69	9.74	251.35	103.00	71.40	3.26	
4200.00	4205.93	16.88	100.92	4111.37	16.30	10.03	252.40	106.07	73.21	3.23	
4300.00	4305.86	16.88	100.92	4206.99	16.91	10.32	253.38	109.16	75.06	3.20	
4400.00	4405.80	16.88	100.92	4302.62	17.52	10.62	254.32	112.29	76.94	3.18	
4500.00	4505.73	16.88	100.92	4398.25	18.13	10.91	255.20	115.45	78.85	3.15	
4600.00	4605.67	16.88	100.92	4493.88	18.74	11.20	256.03	118.63	80.80	3.14	
4700.00	4705.60	16.88	100.92	4589.50	19.35	11.49	256.82	121.84	82.75	3.12	
4800.00	4805.54	16.88	100.92	4685.13	19.96	11.79	257.57	125.07	84.72	3.10	
4900.00	4905.47	16.88	100.92	4780.76	20.57	12.08	258.28	128.32	86.72	3.08	
5000.00	5005.41	16.88	100.92	4876.39	21.19	12.38	258.96	131.59	88.74	3.07	
5100.00	5105.34	16.88	100.92	4972.01	21.80	12.68	259.61	134.87	90.78	3.06	
5200.00	5205.28	16.88	100.92	5067.64	22.42	12.97	260.22	138.17	92.84	3.05	
5300.00	5305.21	16.88	100.92	5163.27	23.03	13.27	260.80	141.49	94.92	3.04	
5400.00	5405.15	16.88	100.92	5258.90	23.65	13.56	261.36	144.82	97.02	3.03	
5500.00	5505.08	16.88	100.92	5354.52	24.27	13.86	261.89	148.17	99.13	3.02	
5600.00	5605.02	16.88	100.92	5450.15	24.88	14.16	262.40	151.52	101.26	3.01	
5700.00	5704.95	16.88	100.92	5545.78	25.50	14.46	262.89	154.89	103.38	3.01	
5800.00	5804.89	16.88	100.92	5641.41	26.12	14.76	263.36	158.27	105.51	3.00	
5900.00	5904.82	16.88	100.92	5737.03	26.74	15.05	263.80	161.66	107.66	2.99	
6000.00	6004.76	16.88	100.92	5832.66	27.35	15.35	264.23	165.05	109.82	2.99	
6100.00	6105.76	15.57	102.16	5929.37	27.95	15.66	264.58	168.41	111.95	2.98	
6200.00	6211.59	7.74	119.11	6032.96	28.28	15.83	261.65	169.41	112.22	2.96	
6300.00	6314.06	4.42	198.97	6134.99	28.38	15.69	242.39	169.47	112.33	2.97	
6400.00	6413.84	10.45	244.35	6233.95	28.30	15.27	187.80	171.70	115.35	3.05	
6500.00	6511.15	17.86	254.38	6328.26	28.09	14.61	125.52	176.06	121.13	3.21	
6600.00	6606.24	25.32	258.52	6416.62	27.79	13.75	101.95	182.21	128.99	3.42	
6700.00	6699.34	32.68	260.83	6497.99	27.46	12.74	90.03	189.70	138.23	3.69	
6800.00	6790.67	39.94	262.33	6571.53	27.14	11.66	82.21	198.00	148.26	3.98	
6900.00	6880.47	47.08	263.42	6636.62	26.90	10.60	76.48	206.64	158.17	4.26	
7000.00	6968.95	54.13	264.27	6692.74	26.77	9.67	72.13	215.14	167.59	4.52	
7100.00	7056.34	61.10	264.97	6739.52	26.78	8.99	68.80	223.13	175.97	4.73	
7200.00	7142.83	67.99	265.58	6776.68	26.96	8.70	66.29	230.28	182.94	4.86	
7300.00	7228.62	74.84	266.13	6804.00	27.33	8.85	64.48	236.34	188.28	4.92	
7400.00	7313.90	81.64	266.64	6821.37	27.86	9.44	63.28	241.11	191.71	4.88	
7500.00	7398.83	88.42	267.13	6828.73	28.56	10.39	62.64	244.45	193.26	4.78	
7600.00	7495.27	90.00	267.24	6829.00	29.54	11.01	62.67	246.18	193.03	4.63	
7700.00	7595.26	90.00	267.24	6829.00	30.75	11.50	62.85	247.65	192.30	4.47	
7800.00	7695.25	90.00	267.24	6829.00	32.17	12.03	63.02	249.12	191.24	4.30	
7900.00	7795.23	90.00	267.24	6829.00	33.75	12.57	63.19	250.59	189.87	4.13	
8000.00	7895.22	90.00	267.24	6829.00	35.49	13.13	63.36	252.06	188.18	3.95	
8100.00	7995.21	90.00	267.24	6829.00	37.36	13.71	63.53	253.54	186.23	3.77	
8200.00	8095.19	90.00	267.24	6829.00	39.33	14.30	63.69	255.01	184.04	3.59	
8300.00	8195.18	90.00	267.24	6829.00	41.41	14.91	63.86	256.49	181.70	3.43	
8400.00	8295.17	90.00	267.24	6829.00	43.56	15.52	64.02	257.98	179.21	3.28	
8500.00	8395.15	90.00	267.24	6829.00	45.78	16.15	64.18	259.46	176.61	3.13	

5D Anti-Collision Report

Secondary Well: Goetzel 12N-30A-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
8600.00	8495.14	90.00	267.24	6829.00	48.07	16.78	64.34	260.94	173.90	3.00	
8700.00	8595.12	90.00	267.24	6829.00	50.40	17.43	64.49	262.43	171.09	2.87	
8800.00	8695.11	90.00	267.24	6829.00	52.78	18.08	64.65	263.92	168.15	2.76	
8900.00	8795.10	90.00	267.24	6829.00	55.21	18.73	64.80	265.41	165.14	2.65	
9000.00	8895.08	90.00	267.24	6829.00	57.66	19.39	64.95	266.91	162.03	2.55	
9100.00	8995.07	90.00	267.24	6829.00	60.15	20.06	65.10	268.40	158.83	2.45	SF(Lo)
9200.00	9095.06	90.00	267.24	6829.00	62.66	20.73	65.25	269.90	155.59	2.36	SF(Lo)
9300.00	9195.04	90.00	267.24	6829.00	65.19	21.41	65.39	271.40	152.30	2.28	SF(Lo)
9400.00	9295.03	90.00	267.24	6829.00	67.75	22.08	65.54	272.90	148.97	2.20	SF(Lo)
9500.00	9395.02	90.00	267.24	6829.00	70.32	22.77	65.68	274.40	145.60	2.13	SF(Lo)
9600.00	9495.00	90.00	267.24	6829.00	72.92	23.45	65.82	275.90	142.20	2.06	SF(Lo)
9700.00	9594.99	90.00	267.24	6829.00	75.52	24.14	65.96	277.41	138.78	2.00	SF(Lo)
9800.00	9694.98	90.00	267.24	6829.00	78.14	24.83	66.10	278.92	135.32	1.94	SF(Lo)
9900.00	9794.96	90.00	267.24	6829.00	80.77	25.52	66.23	280.42	131.84	1.89	SF(Lo)
10000.00	9894.95	90.00	267.24	6829.00	83.42	26.22	66.37	281.93	128.34	1.84	SF(Lo)
10100.00	9994.93	90.00	267.24	6829.00	86.07	26.92	66.50	283.45	124.82	1.79	SF(Lo)
10200.00	10094.92	90.00	267.24	6829.00	88.73	27.62	66.63	284.96	121.27	1.74	SF(Lo)
10300.00	10194.91	90.00	267.24	6829.00	91.40	28.32	66.77	286.47	117.71	1.70	SF(Lo)
10400.00	10294.89	90.00	267.24	6829.00	94.08	29.02	66.89	287.99	114.13	1.66	SF(Lo)
10500.00	10394.88	90.00	267.24	6829.00	96.76	29.72	67.02	289.51	110.53	1.62	SF(Lo)
10600.00	10494.87	90.00	267.24	6829.00	99.45	30.43	67.15	291.03	106.92	1.58	SF(Lo)
10700.00	10594.85	90.00	267.24	6829.00	102.15	31.13	67.28	292.55	103.29	1.55	SF(Lo)
10800.00	10694.84	90.00	267.24	6829.00	104.85	31.84	67.40	294.07	99.65	1.51	SF(Lo)
10900.00	10794.83	90.00	267.24	6829.00	107.56	32.55	67.52	295.59	96.00	1.48	SF(Med)
11000.00	10894.81	90.00	267.24	6829.00	110.27	33.26	67.64	297.12	92.34	1.45	SF(Med)
11100.00	10994.80	90.00	267.24	6829.00	112.99	33.97	67.76	298.64	88.66	1.42	SF(Med)
11200.00	11094.78	90.00	267.24	6829.00	115.71	34.68	67.88	300.17	84.97	1.39	SF(Med)
11300.00	11194.77	90.00	267.24	6829.00	118.43	35.40	68.00	301.70	81.28	1.37	SF(Med)
11400.00	11294.76	90.00	267.24	6829.00	121.16	36.11	68.12	303.23	77.57	1.34	SF(Med)
11500.00	11394.74	90.00	267.24	6829.00	123.89	36.82	68.23	304.76	73.86	1.32	SF(Med)
11600.00	11494.73	90.00	267.24	6829.00	126.63	37.54	68.35	306.29	70.13	1.30	SF(Med)
11700.00	11594.72	90.00	267.24	6829.00	129.36	38.26	68.46	307.83	66.40	1.28	SF(Med)
11800.00	11694.70	90.00	267.24	6829.00	132.10	38.97	68.57	309.36	62.66	1.25	SF(Med)
11900.00	11794.69	90.00	267.24	6829.00	134.84	39.69	68.68	310.90	58.91	1.23	SF(Med)
12000.00	11894.68	90.00	267.24	6829.00	137.59	40.41	68.79	312.43	55.15	1.21	SF(Med)
12100.00	11994.66	90.00	267.24	6829.00	140.33	41.12	68.90	313.97	51.39	1.20	SF(Med)
12200.00	12094.65	90.00	267.24	6829.00	143.08	41.84	69.01	315.51	47.62	1.18	SF(Med)
12300.00	12194.63	90.00	267.24	6829.00	145.83	42.56	69.12	317.05	43.85	1.16	SF(Med)
12400.00	12294.62	90.00	267.24	6829.00	148.58	43.28	69.22	318.59	40.07	1.14	SF(Med)
12500.00	12394.61	90.00	267.24	6829.00	151.34	44.00	69.33	320.14	36.28	1.13	SF(Med)
12600.00	12494.59	90.00	267.24	6829.00	154.09	44.72	69.43	321.68	32.49	1.11	SF(Med)
12700.00	12594.58	90.00	267.24	6829.00	156.85	45.44	69.53	323.22	28.69	1.10	SF(Med)
12800.00	12694.57	90.00	267.24	6829.00	159.61	46.16	69.64	324.77	24.89	1.08	SF(Med)
12900.00	12794.55	90.00	267.24	6829.00	162.37	46.89	69.74	326.32	21.08	1.07	SF(Med)
13000.00	12894.54	90.00	267.24	6829.00	165.13	47.61	69.84	327.86	17.27	1.06	SF(Med)
13100.00	12994.53	90.00	267.24	6829.00	167.89	48.33	69.94	329.41	13.45	1.04	SF(Med)
13200.00	13094.51	90.00	267.24	6829.00	170.66	49.05	70.03	330.96	9.63	1.03	SF(Med)
13300.00	13194.50	90.00	267.24	6829.00	173.42	49.78	70.13	332.51	5.81	1.02	SF(Med)
13400.00	13294.49	90.00	267.24	6829.00	176.19	50.50	70.23	334.06	1.98	1.01	SF(Med)
13500.00	13394.47	90.00	267.24	6829.00	178.96	51.22	70.32	335.62	-1.85	0.99	SF(Hi)
13600.00	13494.46	90.00	267.24	6829.00	181.73	51.95	70.42	337.17	-5.69	0.98	SF(Hi)
13700.00	13594.44	90.00	267.24	6829.00	184.50	52.67	70.51	338.72	-9.53	0.97	SF(Hi)
13800.00	13694.43	90.00	267.24	6829.00	187.27	53.40	70.60	340.28	-13.37	0.96	SF(Hi)
13900.00	13794.42	90.00	267.24	6829.00	190.04	54.12	70.69	341.84	-17.22	0.95	SF(Hi)
14000.00	13894.40	90.00	267.24	6829.00	192.81	54.85	70.79	343.39	-21.07	0.94	SF(Hi)
14100.00	13994.39	90.00	267.24	6829.00	195.58	55.57	70.88	344.95	-24.92	0.93	SF(Hi)
14200.00	14094.38	90.00	267.24	6829.00	198.35	56.30	70.96	346.51	-28.78	0.92	SF(Hi)
14300.00	14194.36	90.00	267.24	6829.00	201.13	57.02	71.05	348.07	-32.64	0.91	SF(Hi)

5D Anti-Collision Report

Secondary Well: Goetzel 12N-30A-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
14400.00	14294.35	90.00	267.24	6829.00	203.90	57.75	71.14	349.63	-36.50	0.91	SF(Hi)
14500.00	14394.34	90.00	267.24	6829.00	206.68	58.47	71.23	351.19	-40.36	0.90	SF(Hi)
14600.00	14494.32	90.00	267.24	6829.00	209.46	59.20	71.31	352.75	-44.23	0.89	SF(Hi)
14700.00	14594.31	90.00	267.24	6829.00	212.23	59.93	71.40	354.31	-48.10	0.88	SF(Hi)
14800.00	14694.29	90.00	267.24	6829.00	215.01	60.65	71.48	355.88	-51.97	0.87	SF(Hi)
14900.00	14794.28	90.00	267.24	6829.00	217.79	61.38	71.57	357.44	-55.85	0.86	SF(Hi)
15000.00	14894.27	90.00	267.24	6829.00	220.57	62.11	71.65	359.01	-59.72	0.86	SF(Hi)
15100.00	14994.25	90.00	267.24	6829.00	223.35	62.83	71.73	360.57	-63.60	0.85	SF(Hi)
15200.00	15094.24	90.00	267.24	6829.00	226.13	63.56	71.82	362.14	-67.48	0.84	SF(Hi)
15300.00	15194.23	90.00	267.24	6829.00	228.91	64.29	71.90	363.71	-71.36	0.84	SF(Hi)
15400.00	15294.21	90.00	267.24	6829.00	231.69	65.01	71.98	365.28	-75.25	0.83	SF(Hi)
15440.87	15322.07	90.00	267.24	6829.00	232.46	65.22	72.00	366.15	-75.73	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	179.55	20.04	19.30	27.32	CC (Med)
100.00	100.00	0.00	0.00	100.00	0.11	0.11	179.55	20.04	19.08	21.00	CC (Med)
200.00	200.00	0.00	0.00	200.00	0.34	0.34	179.55	20.04	18.63	14.28	CC (Med)
300.00	300.00	0.00	0.00	300.00	0.56	0.56	179.55	20.04	18.18	10.81	CC (Med)
400.00	400.00	0.00	0.00	400.00	0.79	0.79	179.55	20.04	17.73	8.70	CC (Med)
500.00	500.00	0.00	0.00	500.00	1.01	1.01	179.55	20.04	17.28	7.28	CC (Med)
600.00	600.00	0.00	0.00	600.00	1.24	1.24	179.55	20.04	16.83	6.26	CC (Med)
700.00	700.00	0.00	0.00	700.00	1.46	1.46	179.55	20.04	16.39	5.49	CC (Med)
800.00	800.00	0.00	0.00	800.00	1.69	1.69	179.55	20.04	15.94	4.89	CC (Med)
900.00	900.00	0.00	0.00	900.00	1.91	1.91	179.55	20.04	15.49	4.40	CC (Med)
1000.00	1000.00	0.00	0.00	1000.00	2.14	2.14	179.55	20.04	15.04	4.01	CC (Med)
1100.00	1100.00	0.00	0.00	1100.00	2.36	2.36	179.55	20.04	14.59	3.68	CC (Med)
1200.00	1199.84	1.00	115.27	1199.84	2.57	2.57	178.44	20.23	14.35	3.44	CC (Med)
1300.00	1299.41	2.99	115.27	1299.34	2.76	2.76	170.37	22.02	15.72	3.50	CC (Med)
1400.00	1398.75	4.97	115.27	1398.43	2.96	2.95	53.17	25.53	18.85	3.82	CC (Med)
1500.00	1497.90	6.96	115.27	1497.05	3.18	3.14	46.86	29.84	22.76	4.22	CC (Med)
1600.00	1596.87	8.94	115.27	1595.06	3.42	3.33	42.78	34.66	27.19	4.64	CC (Lo)
1700.00	1695.66	10.91	115.27	1692.37	3.70	3.53	40.24	39.86	31.97	5.05	CC (Lo)
1800.00	1794.26	12.89	115.27	1788.85	4.02	3.73	38.77	45.32	37.00	5.45	CC (Lo)
1900.00	1892.68	14.85	115.27	1884.39	4.39	3.94	38.04	51.01	42.22	5.80	CC (Lo)
2000.00	1991.64	15.98	115.27	1979.67	4.82	4.16	38.00	56.64	47.30	6.06	CC (Lo)
2100.00	2091.56	15.98	115.27	2075.73	5.29	4.40	39.76	60.02	50.03	6.01	CC (Lo)
2200.00	2191.49	15.98	115.27	2171.80	5.78	4.65	42.70	61.84	51.09	5.75	CC (Lo)
2300.00	2291.42	15.98	115.27	2267.88	6.29	4.91	45.50	63.78	52.23	5.52	CC (Lo)
2400.00	2391.36	15.98	115.27	2363.95	6.82	5.17	48.12	65.87	53.44	5.30	
2500.00	2491.29	15.98	115.27	2460.02	7.35	5.43	50.58	68.09	54.72	5.09	
2600.00	2591.23	15.98	115.27	2556.10	7.90	5.70	52.87	70.42	56.08	4.91	
2700.00	2691.16	15.98	115.27	2652.17	8.45	5.97	55.02	72.86	57.47	4.73	
2800.00	2791.10	15.98	115.27	2748.24	9.01	6.24	57.03	75.40	58.93	4.58	
2900.00	2891.03	15.98	115.27	2844.32	9.57	6.51	58.90	78.02	60.44	4.44	
3000.00	2990.96	15.98	115.27	2940.39	10.13	6.79	60.65	80.73	62.01	4.31	
3100.00	3090.90	15.98	115.27	3036.46	10.70	7.07	62.29	83.50	63.65	4.21	
3200.00	3190.83	15.98	115.27	3132.54	11.27	7.35	63.82	86.33	65.31	4.11	
3300.00	3290.77	15.98	115.27	3228.61	11.84	7.63	65.25	89.22	67.02	4.02	
3400.00	3390.70	15.98	115.27	3324.68	12.42	7.91	66.59	92.17	68.78	3.94	
3500.00	3490.63	15.98	115.27	3420.76	13.00	8.20	67.84	95.16	70.59	3.87	
3600.00	3590.57	15.98	115.27	3516.83	13.58	8.48	69.02	98.19	72.42	3.81	
3700.00	3690.50	15.98	115.27	3612.91	14.16	8.77	70.13	101.27	74.28	3.75	
3800.00	3790.44	15.98	115.27	3708.98	14.74	9.05	71.17	104.38	76.17	3.70	
3900.00	3890.37	15.98	115.27	3805.05	15.32	9.34	72.16	107.52	78.10	3.66	
4000.00	3990.31	15.98	115.27	3901.13	15.90	9.63	73.08	110.69	80.07	3.61	
4100.00	4090.24	15.98	115.27	3997.20	16.49	9.92	73.96	113.89	82.06	3.58	

5D Anti-Collision Report

Secondary Well: Goetzel 33C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
4200.00	4190.17	15.98	115.27	4093.27	17.07	10.20	74.78	117.12	84.05	3.54	
4300.00	4290.11	15.98	115.27	4189.35	17.66	10.49	75.56	120.36	86.07	3.51	
4400.00	4390.04	15.98	115.27	4285.42	18.24	10.78	76.31	123.63	88.11	3.48	
4500.00	4489.98	15.98	115.27	4381.49	18.83	11.07	77.01	126.92	90.17	3.45	
4600.00	4589.91	15.98	115.27	4477.57	19.42	11.36	77.67	130.22	92.25	3.43	
4700.00	4689.84	15.98	115.27	4573.64	20.01	11.65	78.31	133.55	94.35	3.41	
4800.00	4789.78	15.98	115.27	4669.71	20.59	11.95	78.91	136.89	96.47	3.39	
4900.00	4889.71	15.98	115.27	4765.79	21.18	12.24	79.49	140.24	98.61	3.37	
5000.00	4989.65	15.98	115.27	4861.86	21.77	12.53	80.03	143.61	100.76	3.35	
5100.00	5089.58	15.98	115.27	4957.93	22.36	12.82	80.56	146.98	102.93	3.34	
5200.00	5189.51	15.98	115.27	5054.01	22.95	13.11	81.05	150.37	105.11	3.32	
5300.00	5289.45	15.98	115.27	5150.08	23.54	13.41	81.53	153.78	107.30	3.31	
5400.00	5389.38	15.98	115.27	5246.15	24.13	13.70	81.99	157.19	109.50	3.30	
5500.00	5489.32	15.98	115.27	5342.23	24.72	13.99	82.42	160.61	111.71	3.28	
5600.00	5589.25	15.98	115.27	5438.30	25.31	14.28	82.84	164.04	113.92	3.27	
5700.00	5689.19	15.98	115.27	5534.37	25.90	14.58	83.24	167.48	116.13	3.26	
5800.00	5789.12	15.98	115.27	5630.45	26.49	14.87	83.63	170.92	118.36	3.25	
5900.00	5889.05	15.98	115.27	5726.52	27.08	15.16	84.00	174.38	120.59	3.24	
6000.00	5988.99	15.98	115.27	5822.59	27.67	15.46	84.35	177.84	122.84	3.23	
6100.00	6088.92	15.98	115.27	5918.67	28.27	15.75	84.70	181.30	125.09	3.23	
6200.00	6188.86	15.98	115.27	6014.74	28.86	16.05	85.03	184.78	127.35	3.22	
6300.00	6288.71	15.98	115.27	6110.74	29.45	16.34	71.12	186.93	128.57	3.20	
6400.00	6387.29	15.98	115.27	6205.50	30.03	16.63	17.82	185.94	127.57	3.19	
6500.00	6481.44	10.68	133.25	6297.00	30.35	16.84	314.31	185.54	128.64	3.26	
6600.00	6578.19	7.81	179.76	6392.60	30.39	16.84	288.98	188.35	133.72	3.45	
6700.00	6678.47	11.47	224.23	6491.59	30.16	16.58	274.96	194.38	142.58	3.75	
6800.00	6782.71	18.46	242.45	6592.28	29.70	16.03	264.91	203.19	154.31	4.16	
6900.00	6891.28	26.56	250.77	6692.52	29.04	15.16	257.02	214.06	167.96	4.64	
7000.00	7004.47	35.28	255.52	6789.55	28.29	13.97	250.68	226.06	182.05	5.14	
7100.00	7122.45	44.51	258.67	6879.97	27.56	12.52	245.62	238.20	195.77	5.61	
7200.00	7245.15	54.16	261.00	6959.84	27.02	10.99	241.64	249.50	207.98	6.01	
7300.00	7372.19	64.20	262.88	7024.85	26.85	9.73	238.65	259.05	217.17	6.18	
7400.00	7502.88	74.54	264.51	7070.84	27.16	9.33	236.56	266.08	222.66	6.13	
7500.00	7636.13	85.10	266.01	7094.36	28.04	10.21	235.32	270.01	223.95	5.86	
7600.00	7751.93	90.00	266.68	7097.00	29.11	11.25	235.01	270.29	221.80	5.57	
7700.00	7851.93	90.00	266.68	7097.00	30.23	11.72	234.93	269.75	219.43	5.36	
7800.00	7951.93	90.00	266.68	7097.00	31.57	12.23	234.85	269.20	216.67	5.12	
7900.00	8051.92	90.00	266.68	7097.00	33.08	12.76	234.76	268.66	213.66	4.88	
8000.00	8151.92	90.00	266.68	7097.00	34.75	13.31	234.68	268.11	210.36	4.64	
8100.00	8251.92	90.00	266.68	7097.00	36.56	13.88	234.60	267.57	206.85	4.41	
8200.00	8351.92	90.00	266.68	7097.00	38.49	14.47	234.52	267.03	203.05	4.17	
8300.00	8451.91	90.00	266.68	7097.00	40.52	15.07	234.43	266.49	199.11	3.96	
8400.00	8551.91	90.00	266.68	7097.00	42.64	15.68	234.35	265.94	195.06	3.75	
8500.00	8651.91	90.00	266.68	7097.00	44.83	16.30	234.27	265.40	190.91	3.56	
8600.00	8751.91	90.00	266.68	7097.00	47.08	16.93	234.18	264.86	186.67	3.39	
8700.00	8851.91	90.00	266.68	7097.00	49.40	17.57	234.10	264.32	182.36	3.22	
8800.00	8951.90	90.00	266.68	7097.00	51.76	18.21	234.01	263.78	178.00	3.07	
8900.00	9051.90	90.00	266.68	7097.00	54.16	18.87	233.93	263.25	173.59	2.94	
9000.00	9151.90	90.00	266.68	7097.00	56.59	19.52	233.84	262.71	169.14	2.81	
9100.00	9251.90	90.00	266.68	7097.00	59.06	20.19	233.76	262.17	164.67	2.69	
9200.00	9351.89	90.00	266.68	7097.00	61.56	20.86	233.67	261.63	160.17	2.58	
9300.00	9451.89	90.00	266.68	7097.00	64.08	21.53	233.58	261.10	155.66	2.48	SF(Lo)
9400.00	9551.89	90.00	266.68	7097.00	66.63	22.20	233.50	260.56	151.13	2.38	SF(Lo)
9500.00	9651.89	90.00	266.68	7097.00	69.19	22.88	233.41	260.03	146.57	2.29	SF(Lo)
9600.00	9751.89	90.00	266.68	7097.00	71.77	23.57	233.32	259.49	141.94	2.21	SF(Lo)
9700.00	9851.88	90.00	266.68	7097.00	74.37	24.25	233.23	258.96	137.31	2.13	SF(Lo)
9800.00	9951.88	90.00	266.68	7097.00	76.98	24.94	233.14	258.43	132.67	2.05	SF(Lo)
9900.00	10051.88	90.00	266.68	7097.00	79.61	25.63	233.06	257.89	128.00	1.99	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
10000.00	10151.88	90.00	266.68	7097.00	82.24	26.32	232.97	257.36	123.27	1.92	SF(Lo)
10100.00	10251.87	90.00	266.68	7097.00	84.89	27.02	232.88	256.83	118.53	1.86	SF(Lo)
10200.00	10351.87	90.00	266.68	7097.00	87.54	27.71	232.79	256.30	113.80	1.80	SF(Lo)
10300.00	10451.87	90.00	266.68	7097.00	90.21	28.41	232.70	255.77	109.07	1.74	SF(Lo)
10400.00	10551.87	90.00	266.68	7097.00	92.88	29.11	232.61	255.24	104.34	1.69	SF(Lo)
10500.00	10651.87	90.00	266.68	7097.00	95.56	29.82	232.52	254.71	99.61	1.64	SF(Lo)
10600.00	10751.86	90.00	266.68	7097.00	98.25	30.52	232.42	254.18	94.89	1.60	SF(Lo)
10700.00	10851.86	90.00	266.68	7097.00	100.94	31.22	232.33	253.65	90.17	1.55	SF(Lo)
10800.00	10951.86	90.00	266.68	7097.00	103.64	31.93	232.24	253.13	85.45	1.51	SF(Lo)
10900.00	11051.86	90.00	266.68	7097.00	106.34	32.64	232.15	252.60	80.74	1.47	SF(Med)
11000.00	11151.85	90.00	266.68	7097.00	109.05	33.35	232.06	252.08	76.03	1.43	SF(Med)
11100.00	11251.85	90.00	266.68	7097.00	111.76	34.06	231.96	251.55	71.33	1.40	SF(Med)
11200.00	11351.85	90.00	266.68	7097.00	114.47	34.77	231.87	251.03	66.64	1.36	SF(Med)
11300.00	11451.85	90.00	266.68	7097.00	117.19	35.48	231.77	250.50	61.95	1.33	SF(Med)
11400.00	11551.85	90.00	266.68	7097.00	119.92	36.19	231.68	249.98	57.28	1.30	SF(Med)
11500.00	11651.84	90.00	266.68	7097.00	122.64	36.90	231.58	249.46	52.60	1.27	SF(Med)
11600.00	11751.84	90.00	266.68	7097.00	125.37	37.62	231.49	248.94	47.94	1.24	SF(Med)
11700.00	11851.84	90.00	266.68	7097.00	128.11	38.33	231.39	248.42	43.29	1.21	SF(Med)
11800.00	11951.84	90.00	266.68	7097.00	130.84	39.05	231.30	247.90	38.64	1.18	SF(Med)
11900.00	12051.83	90.00	266.68	7097.00	133.58	39.76	231.20	247.38	34.01	1.16	SF(Med)
12000.00	12151.83	90.00	266.68	7097.00	136.32	40.48	231.10	246.86	29.38	1.14	SF(Med)
12100.00	12251.83	90.00	266.68	7097.00	139.06	41.20	231.01	246.34	24.77	1.11	SF(Med)
12200.00	12351.83	90.00	266.68	7097.00	141.81	41.91	230.91	245.82	20.16	1.09	SF(Med)
12300.00	12451.83	90.00	266.68	7097.00	144.56	42.63	230.81	245.31	15.57	1.07	SF(Med)
12400.00	12551.82	90.00	266.68	7097.00	147.31	43.35	230.71	244.79	10.99	1.05	SF(Med)
12500.00	12651.82	90.00	266.68	7097.00	150.06	44.07	230.61	244.27	6.41	1.03	SF(Med)
12600.00	12751.82	90.00	266.68	7097.00	152.81	44.79	230.51	243.76	1.85	1.01	SF(Med)
12700.00	12851.82	90.00	266.68	7097.00	155.56	45.51	230.42	243.25	-2.70	0.99	SF(Hi)
12800.00	12951.81	90.00	266.68	7097.00	158.32	46.23	230.31	242.73	-7.23	0.97	SF(Hi)
12900.00	13051.81	90.00	266.68	7097.00	161.08	46.95	230.21	242.22	-11.76	0.95	SF(Hi)
13000.00	13151.81	90.00	266.68	7097.00	163.83	47.67	230.11	241.71	-16.27	0.94	SF(Hi)
13100.00	13251.81	90.00	266.68	7097.00	166.59	48.39	230.01	241.20	-20.77	0.92	SF(Hi)
13200.00	13351.81	90.00	266.68	7097.00	169.35	49.11	229.91	240.69	-25.26	0.91	SF(Hi)
13300.00	13451.80	90.00	266.68	7097.00	172.12	49.84	229.81	240.18	-29.73	0.89	SF(Hi)
13400.00	13551.80	90.00	266.68	7097.00	174.88	50.56	229.70	239.67	-34.19	0.88	SF(Hi)
13500.00	13651.80	90.00	266.68	7097.00	177.64	51.28	229.60	239.16	-38.63	0.86	SF(Hi)
13600.00	13751.80	90.00	266.68	7097.00	180.41	52.01	229.50	238.66	-43.07	0.85	SF(Hi)
13700.00	13851.79	90.00	266.68	7097.00	183.18	52.73	229.39	238.15	-47.48	0.83	SF(Hi)
13800.00	13951.79	90.00	266.68	7097.00	185.94	53.45	229.29	237.65	-51.89	0.82	SF(Hi)
13900.00	14051.79	90.00	266.68	7097.00	188.71	54.18	229.18	237.14	-56.28	0.81	SF(Hi)
14000.00	14151.79	90.00	266.68	7097.00	191.48	54.90	229.08	236.64	-60.65	0.80	SF(Hi)
14100.00	14251.79	90.00	266.68	7097.00	194.25	55.63	228.97	236.14	-65.01	0.78	SF(Hi)
14200.00	14351.78	90.00	266.68	7097.00	197.02	56.35	228.87	235.63	-69.36	0.77	SF(Hi)
14300.00	14451.78	90.00	266.68	7097.00	199.79	57.08	228.76	235.13	-73.69	0.76	SF(Hi)
14400.00	14551.78	90.00	266.68	7097.00	202.57	57.80	228.65	234.63	-78.00	0.75	SF(Hi)
14500.00	14651.78	90.00	266.68	7097.00	205.34	58.53	228.55	234.13	-82.30	0.74	SF(Hi)
14600.00	14751.77	90.00	266.68	7097.00	208.11	59.25	228.44	233.63	-86.58	0.73	SF(Hi)
14700.00	14851.77	90.00	266.68	7097.00	210.89	59.98	228.33	233.14	-90.84	0.72	SF(Hi)
14800.00	14951.77	90.00	266.68	7097.00	213.66	60.70	228.22	232.64	-95.09	0.71	SF(Hi)
14900.00	15051.77	90.00	266.68	7097.00	216.44	61.43	228.11	232.14	-99.33	0.70	SF(Hi)
15000.00	15151.77	90.00	266.68	7097.00	219.21	62.16	228.00	231.65	-103.54	0.69	SF(Hi)
15100.00	15251.76	90.00	266.68	7097.00	221.99	62.88	227.89	231.15	-107.74	0.68	SF(Hi)
15200.00	15351.76	90.00	266.68	7097.00	224.77	63.61	227.78	230.66	-111.93	0.67	SF(Hi)
15300.00	15451.76	90.00	266.68	7097.00	227.54	64.33	227.67	230.17	-116.09	0.66	SF(Hi)
15400.00	15551.76	90.00	266.68	7097.00	230.32	65.06	227.56	229.67	-120.24	0.66	SF(Hi)
15440.87	15592.63	90.00	266.68	7097.00	231.46	65.36	227.51	229.47	-121.93	0.65	SF(Hi)

5D Anti-Collision Report

Secondary Well: Goetzel 33N-30B-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	0.00	0.00	0.00	179.95	40.07	39.34	54.65	CC (Lo)
100.00	100.00	0.00	0.00	100.00	0.11	0.11	179.95	40.07	39.12	42.01	CC (Lo)
200.00	200.00	0.00	0.00	200.00	0.34	0.34	179.95	40.07	38.67	28.55	CC (Lo)
300.00	300.00	0.00	0.00	300.00	0.56	0.56	179.95	40.07	38.22	21.63	CC (Lo)
400.00	400.00	0.00	0.00	400.00	0.79	0.79	179.95	40.07	37.77	17.40	CC (Lo)
500.00	500.00	0.00	0.00	500.00	1.01	1.01	179.95	40.07	37.32	14.56	CC (Lo)
600.00	600.00	0.00	0.00	600.00	1.24	1.24	179.95	40.07	36.87	12.52	CC (Lo)
700.00	700.00	0.00	0.00	700.00	1.46	1.46	179.95	40.07	36.42	10.98	CC (Lo)
800.00	800.00	0.00	0.00	800.00	1.69	1.69	179.95	40.07	35.97	9.77	CC (Lo)
900.00	900.00	0.00	0.00	900.00	1.91	1.91	179.95	40.07	35.52	8.81	CC (Lo)
1000.00	1000.00	0.00	0.00	1000.00	2.14	2.14	179.95	40.07	35.07	8.01	CC (Lo)
1100.00	1099.19	1.98	123.78	1099.17	2.34	2.34	177.96	41.06	35.64	7.58	CC (Lo)
1200.00	1198.14	3.96	123.78	1197.98	2.53	2.52	172.56	44.30	38.48	7.61	CC (Lo)
1300.00	1296.62	5.93	123.78	1296.09	2.73	2.70	165.26	50.41	44.17	8.08	CC (Lo)
1400.00	1394.60	7.89	123.78	1393.36	2.96	2.89	51.03	58.87	52.22	8.85	CC (Lo)
1500.00	1492.23	9.84	123.78	1489.81	3.21	3.09	46.92	68.40	61.37	9.72	
1600.00	1589.48	11.79	123.78	1585.33	3.51	3.29	44.38	78.68	71.25	10.59	
1700.00	1686.36	13.73	123.78	1679.81	3.85	3.49	42.93	89.52	81.64	11.37	
1800.00	1782.85	15.66	123.78	1773.15	4.25	3.70	42.23	100.82	92.50	12.11	
1900.00	1879.01	17.55	123.78	1865.28	4.71	3.91	42.06	112.55	103.74	12.77	
2000.00	1978.43	17.55	123.78	1960.07	5.24	4.17	42.66	123.16	113.75	13.08	
2100.00	2078.03	17.55	123.78	2055.03	5.78	4.43	44.22	131.28	121.16	12.98	
2200.00	2177.68	17.55	123.78	2150.04	6.35	4.69	46.34	137.98	127.08	12.66	
2300.00	2277.33	17.55	123.78	2245.05	6.93	4.96	48.28	144.84	133.12	12.36	
2400.00	2376.98	17.55	123.78	2340.07	7.53	5.24	50.04	151.84	139.26	12.07	
2500.00	2476.63	17.55	123.78	2435.08	8.13	5.52	51.64	158.98	145.46	11.76	
2600.00	2576.28	17.55	123.78	2530.09	8.73	5.80	53.11	166.22	151.73	11.47	
2700.00	2675.93	17.55	123.78	2625.10	9.35	6.08	54.46	173.57	158.09	11.21	
2800.00	2775.58	17.55	123.78	2720.11	9.96	6.37	55.69	181.01	164.53	10.98	
2900.00	2875.23	17.55	123.78	2815.12	10.58	6.66	56.83	188.52	171.02	10.77	
3000.00	2974.88	17.55	123.78	2910.13	11.21	6.95	57.88	196.10	177.52	10.56	
3100.00	3074.53	17.55	123.78	3005.14	11.83	7.24	58.85	203.74	184.05	10.35	
3200.00	3174.18	17.55	123.78	3100.15	12.46	7.53	59.75	211.43	190.64	10.17	
3300.00	3273.83	17.55	123.78	3195.16	13.09	7.83	60.58	219.18	197.26	10.00	
3400.00	3373.48	17.55	123.78	3290.17	13.72	8.12	61.36	226.96	203.92	9.85	
3500.00	3473.13	17.55	123.78	3385.19	14.35	8.42	62.09	234.79	210.62	9.71	
3600.00	3572.78	17.55	123.78	3480.20	14.99	8.72	62.77	242.65	217.35	9.59	
3700.00	3672.43	17.55	123.78	3575.21	15.62	9.02	63.41	250.54	224.11	9.48	
3800.00	3772.08	17.55	123.78	3670.22	16.26	9.32	64.01	258.46	230.89	9.37	
3900.00	3871.73	17.55	123.78	3765.23	16.90	9.62	64.57	266.41	237.70	9.28	
4000.00	3971.38	17.55	123.78	3860.24	17.53	9.92	65.10	274.38	244.54	9.19	
4100.00	4071.03	17.55	123.78	3955.25	18.17	10.22	65.60	282.38	251.39	9.11	
4200.00	4170.69	17.55	123.78	4050.26	18.81	10.52	66.08	290.39	258.26	9.04	
4300.00	4270.34	17.55	123.78	4145.27	19.45	10.82	66.53	298.43	265.13	8.96	
4400.00	4369.99	17.55	123.78	4240.28	20.09	11.12	66.95	306.48	272.00	8.89	
4500.00	4469.64	17.55	123.78	4335.29	20.73	11.43	67.35	314.54	278.88	8.82	
4600.00	4569.29	17.55	123.78	4430.31	21.37	11.73	67.74	322.62	285.77	8.75	
4700.00	4668.94	17.55	123.78	4525.32	22.01	12.03	68.10	330.72	292.68	8.69	
4800.00	4768.59	17.55	123.78	4620.33	22.65	12.34	68.45	338.83	299.59	8.64	
4900.00	4868.24	17.55	123.78	4715.34	23.29	12.64	68.78	346.95	306.52	8.58	
5000.00	4967.89	17.55	123.78	4810.35	23.93	12.94	69.09	355.08	313.46	8.53	
5100.00	5067.54	17.55	123.78	4905.36	24.57	13.25	69.39	363.22	320.41	8.49	
5200.00	5167.19	17.55	123.78	5000.37	25.22	13.55	69.68	371.37	327.37	8.44	
5300.00	5266.84	17.55	123.78	5095.38	25.86	13.86	69.95	379.52	334.34	8.40	
5400.00	5366.49	17.55	123.78	5190.39	26.50	14.16	70.22	387.69	341.31	8.36	
5500.00	5466.14	17.55	123.78	5285.40	27.14	14.47	70.47	395.87	348.29	8.32	
5600.00	5565.79	17.55	123.78	5380.41	27.79	14.77	70.71	404.05	355.28	8.29	
5700.00	5665.44	17.55	123.78	5475.43	28.43	15.08	70.95	412.24	362.28	8.25	

5D Anti-Collision Report

Secondary Well: Goetzel 33N-30B-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
5800.00	5765.09	17.55	123.78	5570.44	29.07	15.38	71.17	420.43	369.28	8.22	
5900.00	5864.74	17.55	123.78	5665.45	29.72	15.69	71.39	428.63	376.29	8.19	
6000.00	5964.39	17.55	123.78	5760.46	30.36	16.00	71.59	436.84	383.30	8.16	
6100.00	6064.04	17.55	123.78	5855.47	31.00	16.30	71.79	445.05	390.32	8.13	
6200.00	6163.69	17.55	123.78	5950.48	31.65	16.61	71.99	453.27	397.34	8.10	
6300.00	6263.17	17.39	124.20	6045.32	32.29	16.92	59.09	461.15	404.33	8.12	
6400.00	6359.12	12.22	146.87	6138.14	32.57	17.13	10.27	468.51	411.59	8.23	
6500.00	6456.29	10.62	186.12	6233.52	32.50	17.13	313.43	475.69	419.03	8.40	
6600.00	6554.78	14.07	220.06	6329.84	32.10	16.91	294.80	482.56	426.44	8.60	
6700.00	6654.69	20.24	237.62	6425.32	31.41	16.43	287.19	489.01	433.62	8.83	
6800.00	6756.09	27.45	246.91	6518.03	30.53	15.69	283.00	494.89	440.19	9.05	
6900.00	6859.01	35.15	252.56	6605.92	29.55	14.67	280.24	500.08	446.00	9.25	
7000.00	6963.45	43.15	256.43	6686.86	28.60	13.41	278.22	504.44	450.86	9.41	
7100.00	7069.36	51.35	259.31	6758.71	27.82	11.98	276.64	507.85	454.49	9.52	
7200.00	7176.65	59.72	261.63	6819.37	27.36	10.59	275.37	510.21	456.67	9.53	
7300.00	7285.16	68.22	263.59	6866.94	27.29	9.58	274.32	511.43	457.20	9.43	
7400.00	7394.70	76.82	265.36	6899.81	27.66	9.40	273.47	511.42	455.88	9.21	
7500.00	7505.02	85.50	267.01	6916.75	28.44	10.30	272.80	510.17	452.85	8.90	
7600.00	7610.55	90.00	267.85	6919.00	29.46	11.37	272.60	507.70	448.30	8.55	
7700.00	7710.51	90.00	267.85	6919.00	30.57	11.86	272.61	505.00	443.34	8.19	
7800.00	7810.48	90.00	267.85	6919.00	31.89	12.39	272.63	502.31	438.07	7.82	
7900.00	7910.44	90.00	267.85	6919.00	33.39	12.94	272.64	499.61	432.24	7.42	
8000.00	8010.40	90.00	267.85	6919.00	35.05	13.51	272.65	496.91	426.12	7.02	
8100.00	8110.37	90.00	267.85	6919.00	36.85	14.10	272.67	494.21	419.85	6.65	
8200.00	8210.33	90.00	267.85	6919.00	38.77	14.71	272.68	491.51	413.29	6.28	
8300.00	8310.29	90.00	267.85	6919.00	40.78	15.33	272.70	488.81	406.47	5.94	
8400.00	8410.26	90.00	267.85	6919.00	42.89	15.95	272.71	486.11	399.51	5.61	
8500.00	8510.22	90.00	267.85	6919.00	45.07	16.59	272.73	483.41	392.41	5.31	
8600.00	8610.18	90.00	267.85	6919.00	47.32	17.23	272.74	480.71	385.20	5.03	
8700.00	8710.15	90.00	267.85	6919.00	49.63	17.89	272.76	478.02	377.89	4.77	
8800.00	8810.11	90.00	267.85	6919.00	51.98	18.54	272.77	475.32	370.48	4.53	
8900.00	8910.08	90.00	267.85	6919.00	54.37	19.21	272.79	472.62	362.98	4.31	
9000.00	9010.04	90.00	267.85	6919.00	56.81	19.88	272.81	469.92	355.42	4.10	
9100.00	9110.00	90.00	267.85	6919.00	59.27	20.55	272.82	467.22	347.79	3.91	
9200.00	9209.97	90.00	267.85	6919.00	61.77	21.22	272.84	464.52	340.10	3.73	
9300.00	9309.93	90.00	267.85	6919.00	64.29	21.90	272.86	461.83	332.37	3.57	
9400.00	9409.89	90.00	267.85	6919.00	66.83	22.59	272.87	459.13	324.59	3.41	
9500.00	9509.86	90.00	267.85	6919.00	69.39	23.27	272.89	456.43	316.77	3.27	
9600.00	9609.82	90.00	267.85	6919.00	71.97	23.96	272.91	453.73	308.91	3.13	
9700.00	9709.78	90.00	267.85	6919.00	74.57	24.65	272.92	451.03	301.03	3.01	
9800.00	9809.75	90.00	267.85	6919.00	77.18	25.35	272.94	448.33	293.12	2.89	
9900.00	9909.71	90.00	267.85	6919.00	79.80	26.04	272.96	445.64	285.18	2.78	
10000.00	10009.67	90.00	267.85	6919.00	82.44	26.74	272.98	442.94	277.22	2.67	
10100.00	10109.64	90.00	267.85	6919.00	85.09	27.44	273.00	440.24	269.24	2.57	
10200.00	10209.60	90.00	267.85	6919.00	87.74	28.14	273.01	437.54	261.24	2.48	SF(Lo)
10300.00	10309.56	90.00	267.85	6919.00	90.41	28.84	273.03	434.84	253.23	2.39	SF(Lo)
10400.00	10409.53	90.00	267.85	6919.00	93.08	29.55	273.05	432.15	245.19	2.31	SF(Lo)
10500.00	10509.49	90.00	267.85	6919.00	95.76	30.25	273.07	429.45	237.15	2.23	SF(Lo)
10600.00	10609.45	90.00	267.85	6919.00	98.45	30.96	273.09	426.75	229.09	2.16	SF(Lo)
10700.00	10709.42	90.00	267.85	6919.00	101.14	31.67	273.11	424.05	221.02	2.09	SF(Lo)
10800.00	10809.38	90.00	267.85	6919.00	103.84	32.37	273.13	421.35	212.94	2.02	SF(Lo)
10900.00	10909.35	90.00	267.85	6919.00	106.55	33.08	273.15	418.66	204.85	1.96	SF(Lo)
11000.00	11009.31	90.00	267.85	6919.00	109.25	33.80	273.17	415.96	196.74	1.90	SF(Lo)
11100.00	11109.27	90.00	267.85	6919.00	111.97	34.51	273.19	413.26	188.64	1.84	SF(Lo)
11200.00	11209.24	90.00	267.85	6919.00	114.69	35.22	273.21	410.56	180.52	1.78	SF(Lo)
11300.00	11309.20	90.00	267.85	6919.00	117.41	35.93	273.23	407.87	172.39	1.73	SF(Lo)
11400.00	11409.16	90.00	267.85	6919.00	120.14	36.65	273.26	405.17	164.26	1.68	SF(Lo)
11500.00	11509.13	90.00	267.85	6919.00	122.87	37.36	273.28	402.47	156.12	1.63	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
11600.00	11609.09	90.00	267.85	6919.00	125.60	38.08	273.30	399.77	147.98	1.59	SF(Lo)
11700.00	11709.05	90.00	267.85	6919.00	128.33	38.79	273.32	397.08	139.83	1.54	SF(Lo)
11800.00	11809.02	90.00	267.85	6919.00	131.07	39.51	273.34	394.38	131.68	1.50	SF(Lo)
11900.00	11908.98	90.00	267.85	6919.00	133.81	40.23	273.37	391.68	123.52	1.46	SF(Med)
12000.00	12008.94	90.00	267.85	6919.00	136.56	40.94	273.39	388.99	115.35	1.42	SF(Med)
12100.00	12108.91	90.00	267.85	6919.00	139.30	41.66	273.41	386.29	107.19	1.38	SF(Med)
12200.00	12208.87	90.00	267.85	6919.00	142.05	42.38	273.44	383.59	99.02	1.35	SF(Med)
12300.00	12308.83	90.00	267.85	6919.00	144.80	43.10	273.46	380.89	90.84	1.31	SF(Med)
12400.00	12408.80	90.00	267.85	6919.00	147.55	43.82	273.49	378.20	82.66	1.28	SF(Med)
12500.00	12508.76	90.00	267.85	6919.00	150.31	44.54	273.51	375.50	74.48	1.25	SF(Med)
12600.00	12608.72	90.00	267.85	6919.00	153.06	45.26	273.54	372.80	66.30	1.22	SF(Med)
12700.00	12708.69	90.00	267.85	6919.00	155.82	45.98	273.56	370.11	58.11	1.19	SF(Med)
12800.00	12808.65	90.00	267.85	6919.00	158.58	46.70	273.59	367.41	49.92	1.16	SF(Med)
12900.00	12908.62	90.00	267.85	6919.00	161.34	47.43	273.62	364.71	41.73	1.13	SF(Med)
13000.00	13008.58	90.00	267.85	6919.00	164.10	48.15	273.64	362.02	33.54	1.10	SF(Med)
13100.00	13108.54	90.00	267.85	6919.00	166.87	48.87	273.67	359.32	25.34	1.08	SF(Med)
13200.00	13208.51	90.00	267.85	6919.00	169.63	49.59	273.70	356.63	17.14	1.05	SF(Med)
13300.00	13308.47	90.00	267.85	6919.00	172.40	50.32	273.73	353.93	8.94	1.03	SF(Med)
13400.00	13408.43	90.00	267.85	6919.00	175.16	51.04	273.76	351.23	0.74	1.00	SF(Med)
13500.00	13508.40	90.00	267.85	6919.00	177.93	51.76	273.79	348.54	-7.46	0.98	SF(Hi)
13600.00	13608.36	90.00	267.85	6919.00	180.70	52.49	273.81	345.84	-15.66	0.96	SF(Hi)
13700.00	13708.32	90.00	267.85	6919.00	183.47	53.21	273.84	343.15	-23.87	0.93	SF(Hi)
13800.00	13808.29	90.00	267.85	6919.00	186.24	53.93	273.88	340.45	-32.07	0.91	SF(Hi)
13900.00	13908.25	90.00	267.85	6919.00	189.02	54.66	273.91	337.76	-40.28	0.89	SF(Hi)
14000.00	14008.21	90.00	267.85	6919.00	191.79	55.38	273.94	335.06	-48.49	0.87	SF(Hi)
14100.00	14108.18	90.00	267.85	6919.00	194.56	56.11	273.97	332.36	-56.70	0.85	SF(Hi)
14200.00	14208.14	90.00	267.85	6919.00	197.34	56.83	274.00	329.67	-64.91	0.84	SF(Hi)
14300.00	14308.10	90.00	267.85	6919.00	200.11	57.56	274.04	326.97	-73.12	0.82	SF(Hi)
14400.00	14408.07	90.00	267.85	6919.00	202.89	58.28	274.07	324.28	-81.33	0.80	SF(Hi)
14500.00	14508.03	90.00	267.85	6919.00	205.67	59.01	274.10	321.58	-89.54	0.78	SF(Hi)
14600.00	14607.99	90.00	267.85	6919.00	208.44	59.74	274.14	318.89	-97.75	0.77	SF(Hi)
14700.00	14707.96	90.00	267.85	6919.00	211.22	60.46	274.17	316.19	-105.96	0.75	SF(Hi)
14800.00	14807.92	90.00	267.85	6919.00	214.00	61.19	274.21	313.50	-114.17	0.73	SF(Hi)
14900.00	14907.88	90.00	267.85	6919.00	216.78	61.92	274.25	310.81	-122.38	0.72	SF(Hi)
15000.00	15007.85	90.00	267.85	6919.00	219.56	62.64	274.28	308.11	-130.60	0.70	SF(Hi)
15100.00	15107.81	90.00	267.85	6919.00	222.34	63.37	274.32	305.42	-138.81	0.69	SF(Hi)
15200.00	15207.78	90.00	267.85	6919.00	225.12	64.10	274.36	302.72	-147.02	0.67	SF(Hi)
15300.00	15307.74	90.00	267.85	6919.00	227.90	64.82	274.40	300.03	-155.23	0.66	SF(Hi)
15400.00	15407.70	90.00	267.85	6919.00	230.69	65.55	274.44	297.34	-163.44	0.65	SF(Hi)
15440.87	15448.56	90.00	267.85	6919.00	231.82	65.85	274.45	296.23	-166.80	0.64	SF(Hi)
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	179.82	60.11	59.38	81.97	CC (Lo)
100.00	100.00	0.00	0.00	100.00	0.11	0.11	179.82	60.11	59.16	63.01	CC (Lo)
200.00	200.00	0.00	0.00	200.00	0.34	0.34	179.82	60.11	58.71	42.83	CC (Lo)
300.00	300.00	0.00	0.00	300.00	0.56	0.56	179.82	60.11	58.26	32.44	CC (Lo)
400.00	400.00	0.00	0.00	400.00	0.79	0.79	179.82	60.11	57.81	26.11	CC (Lo)
500.00	500.00	0.00	0.00	500.00	1.01	1.01	179.82	60.11	57.36	21.84	CC (Lo)
600.00	600.00	0.00	0.00	600.00	1.24	1.24	179.82	60.11	56.91	18.77	CC (Lo)
700.00	700.00	0.00	0.00	700.00	1.46	1.46	179.82	60.11	56.46	16.46	CC (Lo)
800.00	800.00	0.00	0.00	800.00	1.69	1.69	179.82	60.11	56.01	14.66	CC (Lo)
900.00	899.37	0.99	127.01	899.37	1.90	1.90	179.49	60.37	55.84	13.32	CC (Lo)
1000.00	997.99	2.96	127.01	997.92	2.08	2.08	177.02	62.53	57.59	12.66	CC (Lo)
1100.00	1096.26	4.93	127.01	1095.96	2.28	2.27	172.59	67.16	61.81	12.55	
1200.00	1193.95	6.88	127.01	1193.13	2.50	2.46	167.06	74.73	68.96	12.95	
1300.00	1290.85	8.82	127.01	1289.11	2.74	2.65	161.31	85.66	79.45	13.79	

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
1400.00	1387.02	10.74	127.01	1383.88	3.02	2.85	48.65	99.05	92.42	14.94	
1500.00	1482.67	12.65	127.01	1477.54	3.35	3.05	45.46	113.49	106.47	16.17	
1600.00	1577.79	14.56	127.01	1569.99	3.72	3.26	43.40	128.66	121.23	17.30	
1700.00	1672.39	16.45	127.01	1661.14	4.16	3.48	42.13	144.40	136.51	18.30	
1800.00	1768.89	17.39	127.01	1753.34	4.65	3.72	41.50	160.22	151.85	19.15	
1900.00	1867.95	17.39	127.01	1847.88	5.20	3.98	41.67	173.83	164.92	19.50	
2000.00	1967.28	17.39	127.01	1942.67	5.76	4.24	42.55	184.89	175.36	19.39	
2100.00	2066.76	17.39	127.01	2037.60	6.34	4.51	44.06	193.49	183.26	18.92	
2200.00	2166.27	17.39	127.01	2132.58	6.93	4.79	45.97	200.72	189.71	18.23	
2300.00	2265.79	17.39	127.01	2227.55	7.53	5.07	47.78	208.13	196.30	17.59	
2400.00	2365.31	17.39	127.01	2322.52	8.13	5.35	49.45	215.73	203.03	16.99	
2500.00	2464.83	17.39	127.01	2417.49	8.74	5.64	51.02	223.51	209.89	16.41	
2600.00	2564.34	17.39	127.01	2512.46	9.35	5.92	52.47	231.44	216.86	15.87	
2700.00	2663.86	17.39	127.01	2607.43	9.97	6.21	53.83	239.52	223.93	15.37	
2800.00	2763.38	17.39	127.01	2702.40	10.59	6.50	55.11	247.71	231.12	14.93	
2900.00	2862.90	17.39	127.01	2797.37	11.21	6.80	56.29	256.02	238.41	14.54	
3000.00	2962.41	17.39	127.01	2892.35	11.83	7.09	57.41	264.44	245.77	14.16	
3100.00	3061.93	17.39	127.01	2987.32	12.46	7.39	58.45	272.94	253.19	13.82	
3200.00	3161.45	17.39	127.01	3082.29	13.08	7.68	59.44	281.54	260.68	13.50	
3300.00	3260.97	17.39	127.01	3177.26	13.71	7.98	60.36	290.20	268.22	13.20	
3400.00	3360.48	17.39	127.01	3272.23	14.34	8.28	61.23	298.94	275.83	12.93	
3500.00	3460.00	17.39	127.01	3367.20	14.97	8.57	62.05	307.75	283.50	12.69	
3600.00	3559.52	17.39	127.01	3462.17	15.60	8.87	62.82	316.61	291.22	12.47	
3700.00	3659.04	17.39	127.01	3557.14	16.23	9.17	63.56	325.53	298.99	12.27	
3800.00	3758.55	17.39	127.01	3652.12	16.86	9.47	64.25	334.50	306.82	12.08	
3900.00	3858.07	17.39	127.01	3747.09	17.49	9.77	64.91	343.51	314.68	11.91	
4000.00	3957.59	17.39	127.01	3842.06	18.12	10.07	65.53	352.57	322.59	11.76	
4100.00	4057.11	17.39	127.01	3937.03	18.76	10.38	66.12	361.66	330.53	11.62	
4200.00	4156.62	17.39	127.01	4032.00	19.39	10.68	66.69	370.80	338.51	11.48	
4300.00	4256.14	17.39	127.01	4126.97	20.03	10.98	67.22	379.96	346.51	11.36	
4400.00	4355.66	17.39	127.01	4221.94	20.66	11.28	67.73	389.16	354.53	11.24	
4500.00	4455.18	17.39	127.01	4316.91	21.29	11.58	68.22	398.39	362.58	11.12	
4600.00	4554.69	17.39	127.01	4411.89	21.93	11.89	68.68	407.64	370.64	11.02	
4700.00	4654.21	17.39	127.01	4506.86	22.56	12.19	69.13	416.92	378.72	10.91	
4800.00	4753.73	17.39	127.01	4601.83	23.20	12.49	69.55	426.23	386.82	10.82	
4900.00	4853.25	17.39	127.01	4696.80	23.83	12.80	69.96	435.55	394.94	10.73	
5000.00	4952.76	17.39	127.01	4791.77	24.47	13.10	70.35	444.90	403.09	10.64	
5100.00	5052.28	17.39	127.01	4886.74	25.10	13.41	70.72	454.27	411.25	10.56	
5200.00	5151.80	17.39	127.01	4981.71	25.74	13.71	71.08	463.65	419.43	10.48	
5300.00	5251.32	17.39	127.01	5076.69	26.38	14.01	71.43	473.05	427.63	10.41	
5400.00	5350.83	17.39	127.01	5171.66	27.01	14.32	71.76	482.47	435.84	10.35	
5500.00	5450.35	17.39	127.01	5266.63	27.65	14.62	72.08	491.91	444.07	10.28	
5600.00	5549.87	17.39	127.01	5361.60	28.29	14.93	72.38	501.35	452.31	10.22	
5700.00	5649.39	17.39	127.01	5456.57	28.92	15.23	72.68	510.82	460.57	10.17	
5800.00	5748.90	17.39	127.01	5551.54	29.56	15.54	72.96	520.29	468.84	10.11	
5900.00	5848.42	17.39	127.01	5646.51	30.20	15.84	73.24	529.78	477.13	10.06	
6000.00	5947.94	17.39	127.01	5741.48	30.83	16.15	73.50	539.28	485.42	10.01	
6100.00	6047.46	17.39	127.01	5836.46	31.47	16.45	73.76	548.79	493.73	9.97	
6200.00	6146.97	17.39	127.01	5931.43	32.11	16.76	74.00	558.31	502.04	9.92	
6300.00	6246.48	17.39	127.01	6026.38	32.74	17.06	74.23	567.82	510.35	9.87	
6400.00	6344.33	16.99	128.23	6119.77	33.36	17.36	74.44	577.33	518.66	9.82	
6500.00	6435.31	12.68	151.52	6207.78	33.98	17.66	74.63	586.84	526.97	9.77	
6600.00	6528.72	11.75	187.14	6299.20	34.60	17.96	74.80	596.35	535.28	9.72	
6700.00	6624.93	15.16	217.36	6392.87	35.22	18.26	74.96	605.86	543.59	9.67	
6800.00	6724.30	21.15	234.42	6487.32	35.84	18.56	75.11	615.37	551.90	9.62	
6900.00	6827.21	28.35	244.04	6580.75	36.46	18.86	75.25	624.88	560.21	9.57	
7000.00	6933.98	36.26	250.12	6670.94	37.08	19.16	75.38	634.39	568.52	9.52	
7100.00	7044.88	44.70	254.37	6755.23	37.70	19.46	75.50	643.90	576.83	9.47	

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
7200.00	7160.05	53.58	257.62	6830.51	27.62	12.37	271.39	643.91	592.28	12.47	
7300.00	7279.43	62.86	260.27	6893.32	27.07	10.72	269.83	650.86	598.62	12.46	
7400.00	7402.75	72.49	262.59	6940.11	27.10	9.63	268.58	656.31	602.78	12.26	
7500.00	7529.41	82.41	264.72	6967.60	27.80	9.93	267.64	659.92	604.14	11.83	
7600.00	7651.15	90.00	266.28	6974.00	28.89	11.32	267.23	661.07	602.82	11.35	
7700.00	7751.15	90.00	266.28	6974.00	29.97	11.81	267.23	661.10	600.69	10.94	
7800.00	7851.15	90.00	266.28	6974.00	31.24	12.33	267.23	661.12	598.11	10.49	
7900.00	7951.15	90.00	266.28	6974.00	32.70	12.88	267.23	661.15	595.03	10.00	
8000.00	8051.15	90.00	266.28	6974.00	34.32	13.45	267.23	661.18	591.71	9.52	
8100.00	8151.15	90.00	266.28	6974.00	36.09	14.04	267.23	661.20	588.07	9.04	
8200.00	8251.15	90.00	266.28	6974.00	37.98	14.65	267.23	661.23	584.37	8.60	
8300.00	8351.15	90.00	266.28	6974.00	39.97	15.27	267.23	661.26	580.23	8.16	
8400.00	8451.15	90.00	266.28	6974.00	42.06	15.90	267.23	661.28	575.98	7.75	
8500.00	8551.15	90.00	266.28	6974.00	44.22	16.54	267.23	661.31	571.62	7.37	
8600.00	8651.15	90.00	266.28	6974.00	46.45	17.18	267.23	661.34	567.15	7.02	
8700.00	8751.15	90.00	266.28	6974.00	48.74	17.84	267.23	661.36	562.56	6.69	
8800.00	8851.15	90.00	266.28	6974.00	51.08	18.50	267.23	661.39	557.88	6.39	
8900.00	8951.15	90.00	266.28	6974.00	53.46	19.16	267.23	661.42	553.11	6.11	
9000.00	9051.15	90.00	266.28	6974.00	55.88	19.83	267.23	661.44	548.27	5.84	
9100.00	9151.15	90.00	266.28	6974.00	58.34	20.51	267.23	661.47	543.37	5.60	
9200.00	9251.15	90.00	266.28	6974.00	60.83	21.18	267.23	661.50	538.41	5.37	
9300.00	9351.15	90.00	266.28	6974.00	63.34	21.87	267.23	661.52	533.39	5.16	
9400.00	9451.15	90.00	266.28	6974.00	65.87	22.55	267.23	661.55	528.33	4.97	
9500.00	9551.15	90.00	266.28	6974.00	68.43	23.24	267.23	661.58	523.24	4.78	
9600.00	9651.15	90.00	266.28	6974.00	71.00	23.93	267.23	661.60	518.11	4.61	
9700.00	9751.15	90.00	266.28	6974.00	73.59	24.62	267.23	661.63	512.94	4.45	
9800.00	9851.15	90.00	266.28	6974.00	76.19	25.31	267.23	661.66	507.75	4.30	
9900.00	9951.15	90.00	266.28	6974.00	78.81	26.01	267.23	661.68	502.53	4.16	
10000.00	10051.15	90.00	266.28	6974.00	81.44	26.71	267.23	661.71	497.29	4.02	
10100.00	10151.15	90.00	266.28	6974.00	84.08	27.41	267.23	661.74	492.03	3.90	
10200.00	10251.15	90.00	266.28	6974.00	86.73	28.11	267.23	661.77	486.76	3.78	
10300.00	10351.15	90.00	266.28	6974.00	89.38	28.81	267.23	661.79	481.46	3.67	
10400.00	10451.15	90.00	266.28	6974.00	92.05	29.52	267.23	661.82	476.15	3.56	
10500.00	10551.15	90.00	266.28	6974.00	94.73	30.22	267.23	661.85	470.82	3.46	
10600.00	10651.15	90.00	266.28	6974.00	97.41	30.93	267.23	661.87	465.48	3.37	
10700.00	10751.15	90.00	266.28	6974.00	100.09	31.64	267.23	661.90	460.13	3.28	
10800.00	10851.15	90.00	266.28	6974.00	102.79	32.35	267.23	661.93	454.77	3.20	
10900.00	10951.15	90.00	266.28	6974.00	105.49	33.06	267.23	661.95	449.40	3.11	
11000.00	11051.15	90.00	266.28	6974.00	108.19	33.77	267.23	661.98	444.02	3.04	
11100.00	11151.15	90.00	266.28	6974.00	110.90	34.48	267.23	662.01	438.63	2.96	
11200.00	11251.15	90.00	266.28	6974.00	113.61	35.19	267.23	662.03	433.23	2.89	
11300.00	11351.15	90.00	266.28	6974.00	116.33	35.91	267.23	662.06	427.82	2.83	
11400.00	11451.15	90.00	266.28	6974.00	119.05	36.62	267.23	662.09	422.41	2.76	
11500.00	11551.15	90.00	266.28	6974.00	121.77	37.33	267.23	662.11	416.99	2.70	
11600.00	11651.15	90.00	266.28	6974.00	124.50	38.05	267.23	662.14	411.56	2.64	
11700.00	11751.15	90.00	266.28	6974.00	127.23	38.77	267.23	662.17	406.13	2.59	
11800.00	11851.15	90.00	266.28	6974.00	129.96	39.48	267.23	662.19	400.70	2.53	
11900.00	11951.15	90.00	266.28	6974.00	132.69	40.20	267.23	662.22	395.25	2.48	SF(Lo)
12000.00	12051.15	90.00	266.28	6974.00	135.43	40.92	267.23	662.25	389.81	2.43	SF(Lo)
12100.00	12151.15	90.00	266.28	6974.00	138.17	41.64	267.23	662.27	384.36	2.38	SF(Lo)
12200.00	12251.15	90.00	266.28	6974.00	140.91	42.36	267.23	662.30	378.90	2.34	SF(Lo)
12300.00	12351.15	90.00	266.28	6974.00	143.66	43.08	267.23	662.33	373.44	2.29	SF(Lo)
12400.00	12451.15	90.00	266.28	6974.00	146.40	43.80	267.23	662.36	367.98	2.25	SF(Lo)
12500.00	12551.15	90.00	266.28	6974.00	149.15	44.52	267.23	662.38	362.51	2.21	SF(Lo)
12600.00	12651.15	90.00	266.28	6974.00	151.90	45.24	267.23	662.41	357.04	2.17	SF(Lo)
12700.00	12751.15	90.00	266.28	6974.00	154.65	45.96	267.23	662.44	351.57	2.13	SF(Lo)
12800.00	12851.15	90.00	266.28	6974.00	157.41	46.68	267.23	662.46	346.09	2.09	SF(Lo)
12900.00	12951.15	90.00	266.28	6974.00	160.16	47.40	267.23	662.49	340.61	2.06	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
13000.00	13051.15	90.00	266.28	6974.00	162.92	48.12	267.23	662.52	335.13	2.02	SF(Lo)
13100.00	13151.15	90.00	266.28	6974.00	165.67	48.85	267.23	662.54	329.65	1.99	SF(Lo)
13200.00	13251.15	90.00	266.28	6974.00	168.43	49.57	267.23	662.57	324.16	1.96	SF(Lo)
13300.00	13351.15	90.00	266.28	6974.00	171.19	50.29	267.23	662.60	318.67	1.93	SF(Lo)
13400.00	13451.15	90.00	266.28	6974.00	173.95	51.02	267.23	662.62	313.18	1.90	SF(Lo)
13500.00	13551.15	90.00	266.28	6974.00	176.71	51.74	267.23	662.65	307.69	1.87	SF(Lo)
13600.00	13651.15	90.00	266.28	6974.00	179.48	52.46	267.23	662.68	302.19	1.84	SF(Lo)
13700.00	13751.15	90.00	266.28	6974.00	182.24	53.19	267.23	662.70	296.69	1.81	SF(Lo)
13800.00	13851.15	90.00	266.28	6974.00	185.01	53.91	267.23	662.73	291.19	1.78	SF(Lo)
13900.00	13951.15	90.00	266.28	6974.00	187.77	54.64	267.23	662.76	285.69	1.76	SF(Lo)
14000.00	14051.15	90.00	266.28	6974.00	190.54	55.36	267.23	662.78	280.19	1.73	SF(Lo)
14100.00	14151.15	90.00	266.28	6974.00	193.31	56.09	267.23	662.81	274.69	1.71	SF(Lo)
14200.00	14251.15	90.00	266.28	6974.00	196.07	56.81	267.23	662.84	269.18	1.68	SF(Lo)
14300.00	14351.15	90.00	266.28	6974.00	198.84	57.54	267.23	662.86	263.67	1.66	SF(Lo)
14400.00	14451.15	90.00	266.28	6974.00	201.61	58.26	267.23	662.89	258.16	1.64	SF(Lo)
14500.00	14551.15	90.00	266.28	6974.00	204.38	58.99	267.23	662.92	252.65	1.62	SF(Lo)
14600.00	14651.15	90.00	266.28	6974.00	207.16	59.72	267.23	662.94	247.14	1.59	SF(Lo)
14700.00	14751.15	90.00	266.28	6974.00	209.93	60.44	267.23	662.97	241.63	1.57	SF(Lo)
14800.00	14851.15	90.00	266.28	6974.00	212.70	61.17	267.23	663.00	236.12	1.55	SF(Lo)
14900.00	14951.15	90.00	266.28	6974.00	215.47	61.90	267.23	663.03	230.60	1.53	SF(Lo)
15000.00	15051.15	90.00	266.28	6974.00	218.25	62.62	267.23	663.05	225.08	1.51	SF(Lo)
15100.00	15151.15	90.00	266.28	6974.00	221.02	63.35	267.23	663.08	219.57	1.50	SF(Med)
15200.00	15251.15	90.00	266.28	6974.00	223.80	64.08	267.23	663.11	214.05	1.48	SF(Med)
15300.00	15286.68	90.00	266.28	6974.00	224.78	64.33	267.23	666.26	214.41	1.47	SF(Med)
15400.00	15286.68	90.00	266.28	6974.00	224.78	64.33	267.23	683.25	238.17	1.54	SF(Lo)
15440.87	15286.68	90.00	266.28	6974.00	224.78	64.33	267.23	694.23	254.39	1.58	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	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	799.08	0.98	131.86	799.08	1.67	1.67	179.73	80.44	76.35	19.68	
900.00	897.12	2.94	131.86	897.05	1.85	1.85	178.00	82.77	78.28	18.43	
1000.00	994.82	4.90	131.86	994.52	2.05	2.04	174.85	87.65	82.75	17.90	
1100.00	1091.95	6.84	131.86	1091.13	2.27	2.23	170.76	95.40	90.07	17.90	
1200.00	1188.29	8.77	131.86	1186.59	2.52	2.43	166.29	106.33	100.57	18.44	
1300.00	1283.65	10.67	131.86	1280.57	2.80	2.63	161.91	120.68	114.47	19.44	
1400.00	1378.14	12.56	131.86	1373.12	3.13	2.83	50.32	137.45	130.83	20.77	
1500.00	1472.01	14.44	131.86	1464.39	3.50	3.04	47.80	155.28	148.25	22.08	
1600.00	1565.24	16.30	131.86	1554.28	3.94	3.26	46.15	173.91	166.46	23.34	
1700.00	1657.84	18.16	131.86	1642.72	4.43	3.48	45.15	193.17	185.27	24.43	
1800.00	1753.33	18.97	131.86	1733.12	4.98	3.73	44.66	212.52	204.11	25.27	
1900.00	1851.82	18.97	131.86	1826.26	5.59	4.00	44.82	229.72	220.73	25.56	
2000.00	1950.64	18.97	131.86	1919.71	6.21	4.28	45.55	244.51	234.89	25.41	
2100.00	2049.67	18.97	131.86	2013.36	6.85	4.57	46.76	256.99	246.66	24.89	
2200.00	2148.77	18.97	131.86	2107.08	7.49	4.86	48.36	268.16	257.04	24.13	
2300.00	2247.87	18.97	131.86	2200.80	8.15	5.15	49.85	279.50	267.53	23.35	
2400.00	2346.97	18.97	131.86	2294.52	8.81	5.44	51.22	291.01	278.14	22.61	
2500.00	2446.07	18.97	131.86	2388.24	9.47	5.74	52.49	302.68	288.88	21.94	
2600.00	2545.18	18.97	131.86	2481.96	10.14	6.04	53.67	314.48	299.74	21.33	
2700.00	2644.28	18.97	131.86	2575.67	10.81	6.35	54.76	326.41	310.68	20.75	

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
2800.00	2743.38	18.97	131.86	2669.39	11.48	6.65	55.77	338.44	321.70	20.22	
2900.00	2842.48	18.97	131.86	2763.11	12.15	6.95	56.71	350.57	332.80	19.73	
3000.00	2941.58	18.97	131.86	2856.83	12.83	7.26	57.59	362.79	343.97	19.27	
3100.00	3040.68	18.97	131.86	2950.55	13.50	7.57	58.42	375.09	355.20	18.86	
3200.00	3139.78	18.97	131.86	3044.27	14.18	7.88	59.19	387.46	366.49	18.48	
3300.00	3238.88	18.97	131.86	3137.99	14.86	8.19	59.91	399.89	377.84	18.13	
3400.00	3337.99	18.97	131.86	3231.70	15.54	8.50	60.59	412.38	389.23	17.81	
3500.00	3437.09	18.97	131.86	3325.42	16.22	8.81	61.23	424.93	400.68	17.52	
3600.00	3536.19	18.97	131.86	3419.14	16.90	9.12	61.83	437.53	412.15	17.24	
3700.00	3635.29	18.97	131.86	3512.86	17.58	9.43	62.40	450.17	423.66	16.98	
3800.00	3734.39	18.97	131.86	3606.58	18.26	9.74	62.94	462.85	435.20	16.74	
3900.00	3833.49	18.97	131.86	3700.30	18.95	10.06	63.45	475.57	446.78	16.52	
4000.00	3932.59	18.97	131.86	3794.02	19.63	10.37	63.93	488.33	458.39	16.31	
4100.00	4031.69	18.97	131.86	3887.74	20.31	10.68	64.39	501.12	470.04	16.12	
4200.00	4130.79	18.97	131.86	3981.45	21.00	11.00	64.82	513.93	481.71	15.95	
4300.00	4229.90	18.97	131.86	4075.17	21.68	11.31	65.24	526.78	493.41	15.78	
4400.00	4329.00	18.97	131.86	4168.89	22.36	11.63	65.63	539.65	505.13	15.63	
4500.00	4428.10	18.97	131.86	4262.61	23.05	11.94	66.01	552.55	516.87	15.49	
4600.00	4527.20	18.97	131.86	4356.33	23.73	12.25	66.37	565.47	528.63	15.35	
4700.00	4626.30	18.97	131.86	4450.05	24.42	12.57	66.71	578.41	540.40	15.22	
4800.00	4725.40	18.97	131.86	4543.77	25.10	12.89	67.04	591.36	552.19	15.10	
4900.00	4824.50	18.97	131.86	4637.48	25.79	13.20	67.35	604.34	563.99	14.98	
5000.00	4923.60	18.97	131.86	4731.20	26.47	13.52	67.65	617.34	575.81	14.87	
5100.00	5022.71	18.97	131.86	4824.92	27.16	13.83	67.94	630.35	587.65	14.76	
5200.00	5121.81	18.97	131.86	4918.64	27.85	14.15	68.22	643.37	599.50	14.67	
5300.00	5220.91	18.97	131.86	5012.36	28.53	14.47	68.48	656.41	611.37	14.57	
5400.00	5320.01	18.97	131.86	5106.08	29.22	14.78	68.74	669.46	623.24	14.48	
5500.00	5419.11	18.97	131.86	5199.80	29.90	15.10	68.98	682.53	635.13	14.40	
5600.00	5518.21	18.97	131.86	5293.52	30.59	15.41	69.22	695.60	647.03	14.32	
5700.00	5617.31	18.97	131.86	5387.23	31.28	15.73	69.45	708.69	658.94	14.25	
5800.00	5716.41	18.97	131.86	5480.95	31.96	16.05	69.67	721.79	670.87	14.17	
5900.00	5815.51	18.97	131.86	5574.67	32.65	16.37	69.88	734.90	682.80	14.10	
6000.00	5914.62	18.97	131.86	5668.39	33.34	16.68	70.08	748.02	694.74	14.04	
6100.00	6013.72	18.97	131.86	5762.11	34.02	17.00	70.28	761.15	706.69	13.98	
6200.00	6112.82	18.97	131.86	5855.83	34.71	17.32	70.47	774.28	718.65	13.92	
6300.00	6211.11	18.45	133.63	5948.79	35.37	17.63	58.14	787.19	730.63	13.92	
6400.00	6302.91	14.61	155.91	6036.87	35.67	17.86	10.35	799.86	743.01	14.07	
6500.00	6395.55	13.88	186.21	6126.79	35.47	17.92	314.52	812.47	755.73	14.32	
6600.00	6489.22	16.77	212.71	6217.22	34.86	17.80	296.86	824.81	768.46	14.64	
6700.00	6584.09	21.98	229.55	6306.76	33.90	17.48	290.17	836.66	780.92	15.01	
6800.00	6680.34	28.34	239.83	6393.87	32.66	16.95	286.83	847.82	792.75	15.40	
6900.00	6778.13	35.32	246.58	6476.93	31.24	16.14	284.84	858.08	803.70	15.78	
7000.00	6877.59	42.69	251.37	6554.19	29.82	15.05	283.51	867.26	813.46	16.12	
7100.00	6978.82	50.34	255.04	6623.81	28.58	13.65	282.51	875.18	821.74	16.38	
7200.00	7081.87	58.22	258.01	6683.93	27.69	12.04	281.70	881.66	828.15	16.48	
7300.00	7186.73	66.31	260.55	6732.69	27.30	10.51	281.00	886.57	832.51	16.40	
7400.00	7293.34	74.56	262.84	6768.37	27.44	9.62	280.38	889.77	834.64	16.14	
7500.00	7401.56	82.96	264.97	6789.44	28.09	10.00	279.80	891.18	834.37	15.69	
7600.00	7509.48	90.00	266.70	6795.00	29.12	11.43	279.50	890.91	832.05	15.14	
7700.00	7609.48	90.00	266.70	6795.00	30.17	11.94	279.50	890.23	829.19	14.58	
7800.00	7709.48	90.00	266.70	6795.00	31.43	12.48	279.51	889.55	825.99	14.00	
7900.00	7809.47	90.00	266.70	6795.00	32.88	13.05	279.52	888.87	822.29	13.35	
8000.00	7909.47	90.00	266.70	6795.00	34.49	13.65	279.53	888.18	818.38	12.72	
8100.00	8009.47	90.00	266.70	6795.00	36.24	14.26	279.53	887.50	814.12	12.09	
8200.00	8109.47	90.00	266.70	6795.00	38.12	14.89	279.54	886.82	809.56	11.48	
8300.00	8209.46	90.00	266.70	6795.00	40.10	15.53	279.55	886.14	804.95	10.91	
8400.00	8309.46	90.00	266.70	6795.00	42.18	16.17	279.56	885.46	800.12	10.38	
8500.00	8409.46	90.00	266.70	6795.00	44.33	16.83	279.56	884.77	795.07	9.86	

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
8600.00	8509.46	90.00	266.70	6795.00	46.56	17.49	279.57	884.09	789.93	9.39	
8700.00	8609.46	90.00	266.70	6795.00	48.84	18.16	279.58	883.41	784.70	8.95	
8800.00	8709.45	90.00	266.70	6795.00	51.17	18.83	279.59	882.73	779.39	8.54	
8900.00	8809.45	90.00	266.70	6795.00	53.55	19.51	279.59	882.05	773.99	8.16	
9000.00	8909.45	90.00	266.70	6795.00	55.97	20.19	279.60	881.37	768.52	7.81	
9100.00	9009.45	90.00	266.70	6795.00	58.42	20.88	279.61	880.68	762.99	7.48	
9200.00	9109.44	90.00	266.70	6795.00	60.90	21.56	279.62	880.00	757.40	7.18	
9300.00	9209.44	90.00	266.70	6795.00	63.41	22.25	279.62	879.32	751.76	6.89	
9400.00	9309.44	90.00	266.70	6795.00	65.94	22.95	279.63	878.64	746.07	6.63	
9500.00	9409.44	90.00	266.70	6795.00	68.49	23.64	279.64	877.96	740.35	6.38	
9600.00	9509.43	90.00	266.70	6795.00	71.06	24.34	279.65	877.27	734.59	6.15	
9700.00	9609.43	90.00	266.70	6795.00	73.65	25.04	279.65	876.59	728.80	5.93	
9800.00	9709.43	90.00	266.70	6795.00	76.25	25.74	279.66	875.91	722.98	5.73	
9900.00	9809.43	90.00	266.70	6795.00	78.86	26.44	279.67	875.23	717.14	5.54	
10000.00	9909.42	90.00	266.70	6795.00	81.49	27.14	279.68	874.55	711.27	5.36	
10100.00	10009.42	90.00	266.70	6795.00	84.13	27.85	279.68	873.87	705.39	5.19	
10200.00	10109.42	90.00	266.70	6795.00	86.78	28.55	279.69	873.18	699.48	5.03	
10300.00	10209.42	90.00	266.70	6795.00	89.44	29.26	279.70	872.50	693.56	4.88	
10400.00	10309.41	90.00	266.70	6795.00	92.10	29.97	279.71	871.82	687.62	4.73	
10500.00	10409.41	90.00	266.70	6795.00	94.78	30.68	279.72	871.14	681.67	4.60	
10600.00	10509.41	90.00	266.70	6795.00	97.46	31.39	279.72	870.46	675.71	4.47	
10700.00	10609.41	90.00	266.70	6795.00	100.15	32.10	279.73	869.78	669.73	4.35	
10800.00	10709.40	90.00	266.70	6795.00	102.84	32.81	279.74	869.09	663.75	4.23	
10900.00	10809.40	90.00	266.70	6795.00	105.54	33.52	279.75	868.41	657.75	4.12	
11000.00	10909.40	90.00	266.70	6795.00	108.24	34.24	279.75	867.73	651.74	4.02	
11100.00	11009.40	90.00	266.70	6795.00	110.95	34.95	279.76	867.05	645.73	3.92	
11200.00	11109.40	90.00	266.70	6795.00	113.66	35.67	279.77	866.37	639.70	3.82	
11300.00	11209.39	90.00	266.70	6795.00	116.38	36.38	279.78	865.69	633.67	3.73	
11400.00	11309.39	90.00	266.70	6795.00	119.10	37.10	279.78	865.01	627.64	3.64	
11500.00	11409.39	90.00	266.70	6795.00	121.82	37.82	279.79	864.32	621.59	3.56	
11600.00	11509.39	90.00	266.70	6795.00	124.55	38.53	279.80	863.64	615.54	3.48	
11700.00	11609.38	90.00	266.70	6795.00	127.28	39.25	279.81	862.96	609.49	3.40	
11800.00	11709.38	90.00	266.70	6795.00	130.02	39.97	279.82	862.28	603.43	3.33	
11900.00	11809.38	90.00	266.70	6795.00	132.75	40.69	279.82	861.60	597.36	3.26	
12000.00	11909.38	90.00	266.70	6795.00	135.49	41.41	279.83	860.92	591.29	3.19	
12100.00	12009.37	90.00	266.70	6795.00	138.23	42.13	279.84	860.24	585.22	3.13	
12200.00	12109.37	90.00	266.70	6795.00	140.97	42.85	279.85	859.55	579.14	3.07	
12300.00	12209.37	90.00	266.70	6795.00	143.72	43.57	279.86	858.87	573.06	3.00	
12400.00	12309.37	90.00	266.70	6795.00	146.47	44.29	279.86	858.19	566.97	2.95	
12500.00	12409.36	90.00	266.70	6795.00	149.22	45.01	279.87	857.51	560.88	2.89	
12600.00	12509.36	90.00	266.70	6795.00	151.97	45.74	279.88	856.83	554.79	2.84	
12700.00	12609.36	90.00	266.70	6795.00	154.72	46.46	279.89	856.15	548.70	2.78	
12800.00	12709.36	90.00	266.70	6795.00	157.47	47.18	279.89	855.47	542.60	2.73	
12900.00	12809.35	90.00	266.70	6795.00	160.23	47.90	279.90	854.79	536.50	2.69	
13000.00	12909.35	90.00	266.70	6795.00	162.99	48.63	279.91	854.10	530.40	2.64	
13100.00	13009.35	90.00	266.70	6795.00	165.75	49.35	279.92	853.42	524.29	2.59	
13200.00	13109.35	90.00	266.70	6795.00	168.51	50.08	279.93	852.74	518.18	2.55	
13300.00	13209.35	90.00	266.70	6795.00	171.27	50.80	279.93	852.06	512.07	2.51	
13400.00	13309.34	90.00	266.70	6795.00	174.03	51.52	279.94	851.38	505.96	2.46	SF(Lo)
13500.00	13409.34	90.00	266.70	6795.00	176.79	52.25	279.95	850.70	499.85	2.42	SF(Lo)
13600.00	13509.34	90.00	266.70	6795.00	179.56	52.97	279.96	850.02	493.73	2.39	SF(Lo)
13700.00	13609.34	90.00	266.70	6795.00	182.32	53.70	279.97	849.34	487.62	2.35	SF(Lo)
13800.00	13709.33	90.00	266.70	6795.00	185.09	54.42	279.98	848.65	481.50	2.31	SF(Lo)
13900.00	13809.33	90.00	266.70	6795.00	187.86	55.15	279.98	847.97	475.38	2.28	SF(Lo)
14000.00	13909.33	90.00	266.70	6795.00	190.63	55.87	279.99	847.29	469.26	2.24	SF(Lo)
14100.00	14009.33	90.00	266.70	6795.00	193.39	56.60	280.00	846.61	463.14	2.21	SF(Lo)
14200.00	14109.32	90.00	266.70	6795.00	196.16	57.33	280.01	845.93	457.01	2.18	SF(Lo)
14300.00	14209.32	90.00	266.70	6795.00	198.94	58.05	280.02	845.25	450.89	2.14	SF(Lo)

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
14400.00	14309.32	90.00	266.70	6795.00	201.71	58.78	280.02	844.57	444.76	2.11	SF(Lo)
14500.00	14409.32	90.00	266.70	6795.00	204.48	59.51	280.03	843.89	438.63	2.08	SF(Lo)
14600.00	14509.31	90.00	266.70	6795.00	207.25	60.23	280.04	843.21	432.51	2.05	SF(Lo)
14700.00	14609.31	90.00	266.70	6795.00	210.03	60.96	280.05	842.53	426.38	2.02	SF(Lo)
14800.00	14709.31	90.00	266.70	6795.00	212.80	61.69	280.06	841.84	420.25	2.00	SF(Lo)
14900.00	14809.31	90.00	266.70	6795.00	215.57	62.41	280.06	841.16	414.12	1.97	SF(Lo)
15000.00	14909.30	90.00	266.70	6795.00	218.35	63.14	280.07	840.48	407.99	1.94	SF(Lo)
15100.00	15009.30	90.00	266.70	6795.00	221.13	63.87	280.08	839.80	401.85	1.92	SF(Lo)
15200.00	15109.30	90.00	266.70	6795.00	223.90	64.60	280.09	839.12	395.72	1.89	SF(Lo)
15300.00	15136.85	90.00	266.70	6795.00	224.67	64.80	280.09	841.56	395.07	1.88	SF(Lo)
15400.00	15136.85	90.00	266.70	6795.00	224.67	64.80	280.09	855.32	411.96	1.93	SF(Lo)
15440.87	15136.85	90.00	266.70	6795.00	224.67	64.80	280.09	864.22	423.77	1.96	SF(Lo)
Secondary Well: Goetzel 13C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	0.00	0.00	0.00	179.87	100.18	99.45	136.62	
100.00	100.00	0.00	0.00	100.00	0.11	0.11	179.87	100.18	99.23	105.02	
200.00	200.00	0.00	0.00	200.00	0.34	0.34	179.87	100.18	98.78	71.38	
300.00	300.00	0.00	0.00	300.00	0.56	0.56	179.87	100.18	98.33	54.06	
400.00	400.00	0.00	0.00	400.00	0.79	0.79	179.87	100.18	97.88	43.51	
500.00	500.00	0.00	0.00	500.00	1.01	1.01	179.87	100.18	97.43	36.40	
600.00	600.00	0.00	0.00	600.00	1.24	1.24	179.87	100.18	96.98	31.29	
700.00	697.42	1.95	138.18	697.40	1.43	1.43	179.25	101.46	97.84	28.05	
800.00	794.61	3.89	138.18	794.46	1.62	1.61	177.47	105.36	101.33	26.17	
900.00	891.36	5.83	138.18	890.85	1.82	1.80	174.81	112.05	107.61	25.22	
1000.00	987.44	7.75	138.18	986.26	2.06	2.00	171.60	121.76	116.87	24.94	
1100.00	1082.65	9.65	138.18	1080.37	2.33	2.20	168.19	134.67	129.35	25.30	
1200.00	1176.81	11.54	138.18	1172.92	2.64	2.40	164.85	150.93	145.17	26.20	
1300.00	1269.71	13.39	138.18	1263.63	3.00	2.61	161.75	170.57	164.36	27.48	
1400.00	1361.56	15.23	138.18	1352.62	3.41	2.83	51.17	192.50	185.87	29.06	
1500.00	1452.63	17.05	138.18	1440.10	3.87	3.05	49.34	215.44	208.40	30.58	
1600.00	1542.93	18.86	138.18	1525.99	4.38	3.28	48.17	239.17	231.71	32.03	
1700.00	1637.58	19.47	138.18	1615.29	4.96	3.54	47.52	262.94	254.99	33.07	
1800.00	1735.20	19.47	138.18	1707.32	5.59	3.82	47.47	284.58	276.09	33.51	
1900.00	1833.23	19.47	138.18	1799.75	6.24	4.10	47.90	303.95	294.85	33.40	
2000.00	1931.56	19.47	138.18	1892.46	6.90	4.39	48.76	321.09	311.34	32.93	
2100.00	2030.07	19.47	138.18	1985.33	7.56	4.69	49.99	336.12	325.65	32.08	
2200.00	2128.64	19.47	138.18	2078.26	8.23	4.99	51.57	350.01	338.72	31.01	
2300.00	2227.20	19.47	138.18	2171.19	8.91	5.29	53.06	364.12	351.95	29.92	
2400.00	2325.77	19.47	138.18	2264.12	9.59	5.59	54.44	378.47	365.37	28.91	
2500.00	2424.33	19.47	138.18	2357.05	10.27	5.90	55.72	393.01	378.98	28.00	
2600.00	2522.90	19.47	138.18	2449.98	10.95	6.21	56.91	407.74	392.74	27.19	
2700.00	2621.46	19.47	138.18	2542.91	11.64	6.52	58.02	422.62	406.64	26.44	
2800.00	2720.03	19.47	138.18	2635.84	12.32	6.83	59.05	437.65	420.63	25.71	
2900.00	2818.60	19.47	138.18	2728.76	13.01	7.14	60.01	452.81	434.73	25.04	
3000.00	2917.16	19.47	138.18	2821.69	13.70	7.45	60.92	468.09	448.94	24.44	
3100.00	3015.73	19.47	138.18	2914.62	14.39	7.76	61.76	483.47	463.24	23.90	
3200.00	3114.29	19.47	138.18	3007.55	15.08	8.08	62.55	498.96	477.64	23.41	
3300.00	3212.86	19.47	138.18	3100.48	15.77	8.39	63.30	514.52	492.12	22.96	
3400.00	3311.42	19.47	138.18	3193.41	16.46	8.71	64.00	530.17	506.67	22.56	
3500.00	3409.99	19.47	138.18	3286.34	17.15	9.02	64.66	545.89	521.28	22.18	
3600.00	3508.55	19.47	138.18	3379.27	17.84	9.34	65.28	561.68	535.96	21.84	
3700.00	3607.12	19.47	138.18	3472.19	18.54	9.65	65.87	577.53	550.70	21.52	
3800.00	3705.69	19.47	138.18	3565.12	19.23	9.97	66.43	593.44	565.47	21.21	
3900.00	3804.25	19.47	138.18	3658.05	19.92	10.29	66.96	609.40	580.28	20.93	
4000.00	3902.82	19.47	138.18	3750.98	20.62	10.61	67.46	625.41	595.12	20.65	
4100.00	4001.38	19.47	138.18	3843.91	21.31	10.92	67.94	641.46	610.00	20.39	

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
4200.00	4099.95	19.47	138.18	3936.84	22.00	11.24	68.39	657.55	624.92	20.15	
4300.00	4198.51	19.47	138.18	4029.77	22.70	11.56	68.82	673.68	639.88	19.93	
4400.00	4297.08	19.47	138.18	4122.70	23.39	11.88	69.23	689.85	654.87	19.72	
4500.00	4395.64	19.47	138.18	4215.63	24.09	12.19	69.63	706.05	669.90	19.53	
4600.00	4494.21	19.47	138.18	4308.55	24.78	12.51	70.00	722.28	684.95	19.35	
4700.00	4592.78	19.47	138.18	4401.48	25.48	12.83	70.36	738.54	700.04	19.18	
4800.00	4691.34	19.47	138.18	4494.41	26.17	13.15	70.70	754.83	715.14	19.02	
4900.00	4789.91	19.47	138.18	4587.34	26.87	13.47	71.03	771.14	730.28	18.87	
5000.00	4888.47	19.47	138.18	4680.27	27.56	13.79	71.35	787.48	745.44	18.73	
5100.00	4987.04	19.47	138.18	4773.20	28.26	14.11	71.65	803.84	760.61	18.60	
5200.00	5085.60	19.47	138.18	4866.13	28.96	14.43	71.94	820.22	775.81	18.47	
5300.00	5184.17	19.47	138.18	4959.06	29.65	14.75	72.22	836.62	791.03	18.35	
5400.00	5282.73	19.47	138.18	5051.99	30.35	15.07	72.49	853.04	806.27	18.24	
5500.00	5381.30	19.47	138.18	5144.91	31.04	15.39	72.75	869.47	821.52	18.13	
5600.00	5479.87	19.47	138.18	5237.84	31.74	15.71	73.00	885.93	836.79	18.03	
5700.00	5578.43	19.47	138.18	5330.77	32.44	16.03	73.24	902.39	852.08	17.93	
5800.00	5677.00	19.47	138.18	5423.70	33.13	16.35	73.47	918.88	867.38	17.84	
5900.00	5775.56	19.47	138.18	5516.63	33.83	16.67	73.69	935.37	882.69	17.76	
6000.00	5874.13	19.47	138.18	5609.56	34.52	16.99	73.91	951.88	898.02	17.67	
6100.00	5972.69	19.47	138.18	5702.49	35.22	17.31	74.11	968.41	913.36	17.59	
6200.00	6071.26	19.47	138.18	5795.42	35.92	17.63	74.32	984.94	928.71	17.52	
6300.00	6169.90	19.47	138.18	5888.41	36.61	17.95	74.52	1000.94	943.73	17.50	
6400.00	6267.71	19.47	138.18	5980.64	37.31	18.26	74.71	1015.24	957.62	17.62	
6500.00	6362.82	19.47	138.18	6070.31	37.98	18.57	74.89	1028.12	970.59	17.87	
6600.00	6453.37	19.47	138.18	6155.68	38.62	18.87	75.06	1040.36	983.47	18.29	
6700.00	6537.55	19.26	139.01	6235.04	39.21	19.14	75.22	1053.15	997.47	18.91	
6800.00	6620.03	16.17	158.32	6313.67	39.46	19.36	75.37	1067.68	1013.44	19.68	
6900.00	6708.97	15.45	184.51	6399.35	39.24	19.47	75.51	1084.13	1031.30	20.52	
7000.00	6806.73	18.10	210.28	6493.07	38.48	19.42	75.63	1102.28	1050.89	21.45	
7100.00	6916.72	23.88	229.05	6595.83	37.05	19.15	75.73	1121.71	1071.45	22.32	
7200.00	7043.79	32.23	241.53	6707.97	34.85	18.47	75.81	1141.66	1092.01	22.99	
7300.00	7194.62	43.08	250.26	6827.29	31.98	17.03	75.87	1160.93	1111.21	23.35	
7400.00	7376.95	56.75	256.96	6944.50	29.23	14.15	75.91	1177.61	1126.63	23.10	
7500.00	7595.66	73.48	262.65	7036.28	28.30	10.47	75.93	1189.07	1135.13	22.04	
7600.00	7823.33	90.00	267.32	7067.00	29.85	11.94	75.94	1191.84	1133.42	20.40	
7700.00	7923.31	90.00	267.32	7067.00	30.86	12.45	75.94	1190.08	1129.60	19.68	
7800.00	8023.30	90.00	267.32	7067.00	32.06	12.99	75.94	1188.31	1125.23	18.84	
7900.00	8123.28	90.00	267.32	7067.00	33.45	13.57	75.94	1186.54	1120.50	17.97	
8000.00	8223.27	90.00	267.32	7067.00	35.01	14.17	75.94	1184.77	1115.40	17.08	
8100.00	8323.25	90.00	267.32	7067.00	36.71	14.79	75.94	1183.01	1110.16	16.24	
8200.00	8423.23	90.00	267.32	7067.00	38.53	15.43	75.94	1181.24	1104.61	15.42	
8300.00	8523.22	90.00	267.32	7067.00	40.47	16.08	75.94	1179.47	1098.88	14.64	
8400.00	8623.20	90.00	267.32	7067.00	42.50	16.74	75.94	1177.71	1093.11	13.92	
8500.00	8723.19	90.00	267.32	7067.00	44.61	17.40	75.94	1175.94	1086.91	13.21	
8600.00	8823.17	90.00	267.32	7067.00	46.80	18.08	75.94	1174.17	1080.69	12.56	
8700.00	8923.16	90.00	267.32	7067.00	49.04	18.75	75.94	1172.41	1074.40	11.96	
8800.00	9023.14	90.00	267.32	7067.00	51.35	19.43	75.94	1170.64	1068.00	11.41	
8900.00	9123.12	90.00	267.32	7067.00	53.70	20.12	75.94	1168.87	1061.50	10.89	
9000.00	9223.11	90.00	267.32	7067.00	56.09	20.81	75.94	1167.11	1054.93	10.40	
9100.00	9323.09	90.00	267.32	7067.00	58.52	21.50	75.94	1165.34	1048.28	9.95	
9200.00	9423.08	90.00	267.32	7067.00	60.98	22.19	75.94	1163.57	1041.56	9.54	
9300.00	9523.06	90.00	267.32	7067.00	63.47	22.88	75.94	1161.81	1034.80	9.15	
9400.00	9623.04	90.00	267.32	7067.00	65.98	23.58	75.94	1160.04	1027.98	8.78	
9500.00	9723.03	90.00	267.32	7067.00	68.52	24.28	75.94	1158.27	1021.13	8.45	
9600.00	9823.01	90.00	267.32	7067.00	71.07	24.98	75.94	1156.51	1014.24	8.13	
9700.00	9923.00	90.00	267.32	7067.00	73.65	25.68	75.94	1154.74	1007.31	7.83	
9800.00	10022.98	90.00	267.32	7067.00	76.24	26.38	75.94	1152.98	1000.36	7.55	
9900.00	10122.97	90.00	267.32	7067.00	78.84	27.09	75.94	1151.21	993.38	7.29	

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
10000.00	10222.95	90.00	267.32	7067.00	81.46	27.79	263.76	1149.44	986.38	7.05	
10100.00	10322.93	90.00	267.32	7067.00	84.09	28.50	263.75	1147.68	979.35	6.82	
10200.00	10422.92	90.00	267.32	7067.00	86.73	29.20	263.74	1145.91	972.31	6.60	
10300.00	10522.90	90.00	267.32	7067.00	89.38	29.91	263.73	1144.14	965.25	6.40	
10400.00	10622.89	90.00	267.32	7067.00	92.04	30.62	263.72	1142.38	958.18	6.20	
10500.00	10722.87	90.00	267.32	7067.00	94.71	31.33	263.71	1140.61	951.09	6.02	
10600.00	10822.86	90.00	267.32	7067.00	97.38	32.04	263.70	1138.85	943.98	5.84	
10700.00	10922.84	90.00	267.32	7067.00	100.06	32.75	263.69	1137.08	936.87	5.68	
10800.00	11022.82	90.00	267.32	7067.00	102.75	33.47	263.68	1135.31	929.74	5.52	
10900.00	11122.81	90.00	267.32	7067.00	105.45	34.18	263.67	1133.55	922.61	5.37	
11000.00	11222.79	90.00	267.32	7067.00	108.15	34.89	263.66	1131.78	915.46	5.23	
11100.00	11322.78	90.00	267.32	7067.00	110.85	35.61	263.65	1130.02	908.31	5.10	
11200.00	11422.76	90.00	267.32	7067.00	113.56	36.32	263.64	1128.25	901.15	4.97	
11300.00	11522.74	90.00	267.32	7067.00	116.28	37.04	263.63	1126.48	893.98	4.85	
11400.00	11622.73	90.00	267.32	7067.00	118.99	37.76	263.62	1124.72	886.80	4.73	
11500.00	11722.71	90.00	267.32	7067.00	121.71	38.47	263.61	1122.95	879.62	4.61	
11600.00	11822.70	90.00	267.32	7067.00	124.44	39.19	263.60	1121.19	872.44	4.51	
11700.00	11922.68	90.00	267.32	7067.00	127.17	39.91	263.59	1119.42	865.24	4.40	
11800.00	12022.67	90.00	267.32	7067.00	129.90	40.63	263.58	1117.65	858.04	4.31	
11900.00	12122.65	90.00	267.32	7067.00	132.63	41.35	263.57	1115.89	850.84	4.21	
12000.00	12222.63	90.00	267.32	7067.00	135.37	42.06	263.56	1114.12	843.63	4.12	
12100.00	12322.62	90.00	267.32	7067.00	138.11	42.78	263.55	1112.36	836.42	4.03	
12200.00	12422.60	90.00	267.32	7067.00	140.85	43.50	263.54	1110.59	829.20	3.95	
12300.00	12522.59	90.00	267.32	7067.00	143.60	44.23	263.53	1108.83	821.98	3.87	
12400.00	12622.57	90.00	267.32	7067.00	146.34	44.95	263.52	1107.06	814.76	3.79	
12500.00	12722.56	90.00	267.32	7067.00	149.09	45.67	263.51	1105.30	807.53	3.71	
12600.00	12822.54	90.00	267.32	7067.00	151.84	46.39	263.49	1103.53	800.30	3.64	
12700.00	12922.52	90.00	267.32	7067.00	154.60	47.11	263.48	1101.77	793.07	3.57	
12800.00	13022.51	90.00	267.32	7067.00	157.35	47.83	263.47	1100.00	785.84	3.50	
12900.00	13122.49	90.00	267.32	7067.00	160.11	48.56	263.46	1098.23	778.60	3.44	
13000.00	13222.48	90.00	267.32	7067.00	162.86	49.28	263.45	1096.47	771.36	3.37	
13100.00	13322.46	90.00	267.32	7067.00	165.62	50.00	263.44	1094.70	764.12	3.31	
13200.00	13422.44	90.00	267.32	7067.00	168.38	50.73	263.43	1092.94	756.87	3.25	
13300.00	13522.43	90.00	267.32	7067.00	171.14	51.45	263.42	1091.17	749.62	3.19	
13400.00	13622.41	90.00	267.32	7067.00	173.90	52.17	263.41	1089.41	742.37	3.14	
13500.00	13722.40	90.00	267.32	7067.00	176.67	52.90	263.40	1087.64	735.12	3.09	
13600.00	13822.38	90.00	267.32	7067.00	179.43	53.62	263.39	1085.88	727.87	3.03	
13700.00	13922.37	90.00	267.32	7067.00	182.20	54.35	263.38	1084.11	720.62	2.98	
13800.00	14022.35	90.00	267.32	7067.00	184.97	55.07	263.37	1082.35	713.36	2.93	
13900.00	14122.33	90.00	267.32	7067.00	187.73	55.80	263.36	1080.58	706.10	2.89	
14000.00	14222.32	90.00	267.32	7067.00	190.50	56.52	263.35	1078.82	698.85	2.84	
14100.00	14322.30	90.00	267.32	7067.00	193.27	57.25	263.33	1077.05	691.59	2.79	
14200.00	14422.29	90.00	267.32	7067.00	196.04	57.97	263.32	1075.29	684.33	2.75	
14300.00	14522.27	90.00	267.32	7067.00	198.82	58.70	263.31	1073.52	677.06	2.71	
14400.00	14622.26	90.00	267.32	7067.00	201.59	59.42	263.30	1071.76	669.80	2.67	
14500.00	14722.24	90.00	267.32	7067.00	204.36	60.15	263.29	1070.00	662.54	2.63	
14600.00	14822.22	90.00	267.32	7067.00	207.14	60.88	263.28	1068.23	655.27	2.59	
14700.00	14922.21	90.00	267.32	7067.00	209.91	61.60	263.27	1066.47	648.00	2.55	
14800.00	15022.19	90.00	267.32	7067.00	212.69	62.33	263.26	1064.70	640.74	2.51	
14900.00	15122.18	90.00	267.32	7067.00	215.46	63.06	263.25	1062.94	633.47	2.48	SF(Lo)
15000.00	15222.16	90.00	267.32	7067.00	218.24	63.78	263.23	1061.17	626.20	2.44	SF(Lo)
15100.00	15322.14	90.00	267.32	7067.00	221.02	64.51	263.22	1059.41	618.93	2.41	SF(Lo)
15200.00	15422.13	90.00	267.32	7067.00	223.79	65.24	263.21	1057.64	611.66	2.37	SF(Lo)
15300.00	15522.11	90.00	267.32	7067.00	226.57	65.96	263.20	1055.88	604.39	2.34	SF(Lo)
15400.00	15622.10	90.00	267.32	7067.00	229.35	66.69	263.19	1054.11	597.12	2.31	SF(Lo)
15440.87	15662.96	90.00	267.32	7067.00	230.49	66.99	263.18	1053.39	594.15	2.29	SF(Lo)

5D Anti-Collision Report

Secondary Well: Goetzel 34N-30C-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
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	498.41	0.97	141.02	498.41	1.00	1.00	179.83	120.55	117.81	44.05	
600.00	595.13	2.90	141.02	595.07	1.18	1.18	178.87	123.20	120.06	39.22	
700.00	691.52	4.83	141.02	691.24	1.38	1.37	177.09	128.60	125.03	36.09	
800.00	787.37	6.75	141.02	786.59	1.61	1.57	174.70	136.89	132.89	34.25	
900.00	882.46	8.65	141.02	880.82	1.87	1.77	171.94	148.25	143.80	33.34	
1000.00	976.60	10.53	141.02	973.64	2.18	1.98	169.07	162.81	157.90	33.21	
1100.00	1069.60	12.39	141.02	1064.79	2.52	2.20	166.26	180.65	175.30	33.77	
1200.00	1161.30	14.23	141.02	1154.02	2.92	2.41	163.63	201.79	195.99	34.79	
1300.00	1251.54	16.03	141.02	1241.12	3.36	2.64	161.26	226.20	219.95	36.18	
1400.00	1340.56	17.81	141.02	1326.29	3.85	2.87	51.16	252.78	246.09	37.80	
1500.00	1428.72	19.57	141.02	1409.79	4.39	3.10	49.61	280.25	273.16	39.51	
1600.00	1520.52	20.44	141.02	1495.93	5.00	3.36	48.57	308.09	300.52	40.69	
1700.00	1617.09	20.44	141.02	1586.41	5.66	3.65	48.09	334.07	325.99	41.36	
1800.00	1714.20	20.44	141.02	1677.41	6.34	3.95	48.09	357.79	349.15	41.42	
1900.00	1811.76	20.44	141.02	1768.82	7.03	4.25	48.48	379.28	370.03	41.01	
2000.00	1909.63	20.44	141.02	1860.52	7.73	4.56	49.22	398.59	388.68	40.21	
2100.00	2007.70	20.44	141.02	1952.42	8.43	4.87	50.25	415.83	405.18	39.04	
2200.00	2105.84	20.44	141.02	2044.37	9.14	5.18	51.65	431.92	420.45	37.64	
2300.00	2203.98	20.44	141.02	2136.33	9.85	5.49	52.97	448.24	435.90	36.32	
2400.00	2302.12	20.44	141.02	2228.29	10.56	5.81	54.21	464.77	451.51	35.03	
2500.00	2400.26	20.44	141.02	2320.25	11.28	6.13	55.36	481.51	467.29	33.87	
2600.00	2498.40	20.44	141.02	2412.21	11.99	6.44	56.43	498.42	483.24	32.84	
2700.00	2596.54	20.44	141.02	2504.17	12.71	6.76	57.44	515.49	499.33	31.88	
2800.00	2694.68	20.44	141.02	2596.12	13.42	7.08	58.37	532.71	515.53	31.00	
2900.00	2792.82	20.44	141.02	2688.08	14.14	7.40	59.26	550.06	531.85	30.21	
3000.00	2890.96	20.44	141.02	2780.04	14.86	7.73	60.08	567.53	548.26	29.45	
3100.00	2989.10	20.44	141.02	2872.00	15.58	8.05	60.86	585.10	564.75	28.76	
3200.00	3087.24	20.44	141.02	2963.96	16.30	8.37	61.59	602.78	581.35	28.13	
3300.00	3185.38	20.44	141.02	3055.92	17.02	8.69	62.28	620.54	598.02	27.55	
3400.00	3283.52	20.44	141.02	3147.88	17.74	9.02	62.94	638.39	614.77	27.03	
3500.00	3381.66	20.44	141.02	3239.83	18.46	9.34	63.55	656.31	631.60	26.55	
3600.00	3479.80	20.44	141.02	3331.79	19.18	9.66	64.14	674.31	648.49	26.11	
3700.00	3577.94	20.44	141.02	3423.75	19.90	9.99	64.69	692.37	665.43	25.71	
3800.00	3676.08	20.44	141.02	3515.71	20.62	10.31	65.22	710.49	682.44	25.33	
3900.00	3774.22	20.44	141.02	3607.67	21.34	10.64	65.72	728.66	699.49	24.98	
4000.00	3872.36	20.44	141.02	3699.63	22.07	10.96	66.19	746.88	716.59	24.66	
4100.00	3970.50	20.44	141.02	3791.58	22.79	11.29	66.65	765.16	733.74	24.35	
4200.00	4068.64	20.44	141.02	3883.54	23.51	11.61	67.08	783.47	750.91	24.06	
4300.00	4166.78	20.44	141.02	3975.50	24.23	11.94	67.49	801.83	768.10	23.77	
4400.00	4264.92	20.44	141.02	4067.46	24.96	12.27	67.88	820.23	785.33	23.50	
4500.00	4363.06	20.44	141.02	4159.42	25.68	12.59	68.26	838.66	802.59	23.25	
4600.00	4461.20	20.44	141.02	4251.38	26.40	12.92	68.62	857.13	819.88	23.01	
4700.00	4559.34	20.44	141.02	4343.34	27.12	13.24	68.97	875.63	837.20	22.79	
4800.00	4657.48	20.44	141.02	4435.29	27.85	13.57	69.30	894.15	854.56	22.58	
4900.00	4755.62	20.44	141.02	4527.25	28.57	13.90	69.61	912.71	871.93	22.38	
5000.00	4853.76	20.44	141.02	4619.21	29.29	14.22	69.92	931.29	889.34	22.20	
5100.00	4951.90	20.44	141.02	4711.17	30.02	14.55	70.21	949.89	906.76	22.02	
5200.00	5050.04	20.44	141.02	4803.13	30.74	14.88	70.49	968.52	924.21	21.86	
5300.00	5148.18	20.44	141.02	4895.09	31.46	15.20	70.76	987.17	941.68	21.70	
5400.00	5246.32	20.44	141.02	4987.04	32.19	15.53	71.03	1005.84	959.17	21.55	
5500.00	5344.46	20.44	141.02	5079.00	32.91	15.86	71.28	1024.53	976.68	21.41	
5600.00	5442.60	20.44	141.02	5170.96	33.63	16.18	71.52	1043.24	994.21	21.28	
5700.00	5540.74	20.44	141.02	5262.92	34.36	16.51	71.75	1061.97	1011.75	21.15	

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
5800.00	5638.88	20.44	141.02	5354.88	35.08	16.84	71.98	1080.71	1029.31	21.03	
5900.00	5737.02	20.44	141.02	5446.84	35.81	17.17	72.20	1099.47	1046.89	20.91	
6000.00	5835.16	20.44	141.02	5538.80	36.53	17.49	72.41	1118.24	1064.48	20.80	
6100.00	5933.30	20.44	141.02	5630.75	37.25	17.82	72.61	1137.03	1082.08	20.69	
6200.00	6031.44	20.44	141.02	5722.71	37.98	18.15	72.81	1155.83	1099.70	20.59	
6300.00	6129.66	20.44	141.02	5814.75	38.70	18.47	60.94	1174.21	1117.10	20.56	
6400.00	6227.12	20.44	141.02	5906.07	39.42	18.80	13.35	1191.18	1133.66	20.71	
6500.00	6321.92	20.44	141.02	5994.90	40.12	19.12	317.10	1206.87	1149.43	21.01	
6600.00	6412.22	20.44	141.02	6079.51	40.79	19.42	298.56	1221.86	1165.01	21.49	
6700.00	6495.46	19.15	147.28	6157.63	41.34	19.69	290.82	1237.06	1181.32	22.20	
6800.00	6578.59	16.99	167.68	6236.74	41.40	19.88	286.48	1253.28	1198.69	22.96	
6900.00	6667.81	17.33	192.01	6322.09	40.97	19.97	283.49	1270.51	1217.15	23.81	
7000.00	6765.17	20.65	213.87	6414.26	39.94	19.92	281.12	1288.50	1236.36	24.72	
7100.00	6873.55	26.55	229.91	6513.63	38.20	19.65	279.01	1306.87	1255.61	25.49	
7200.00	6996.88	34.62	241.14	6619.80	35.68	19.01	276.95	1325.03	1274.18	26.06	
7300.00	7140.29	44.84	249.38	6730.02	32.50	17.65	274.84	1342.05	1291.00	26.29	
7400.00	7309.50	57.40	255.91	6836.10	29.56	14.83	272.68	1356.58	1304.41	26.00	
7500.00	7508.32	72.46	261.57	6920.16	28.44	10.89	270.69	1366.78	1311.98	24.94	
7600.00	7733.36	89.67	266.94	6954.99	29.82	11.87	269.46	1370.22	1311.11	23.18	
7700.00	7835.78	90.00	267.03	6955.00	30.85	12.48	269.46	1368.94	1307.68	22.35	
7800.00	7935.77	90.00	267.03	6955.00	32.02	13.04	269.46	1367.66	1303.93	21.46	
7900.00	8035.76	90.00	267.03	6955.00	33.38	13.63	269.45	1366.37	1299.71	20.50	
8000.00	8135.75	90.00	267.03	6955.00	34.91	14.25	269.45	1365.09	1295.14	19.51	
8100.00	8235.74	90.00	267.03	6955.00	36.58	14.89	269.45	1363.81	1290.28	18.55	
8200.00	8335.73	90.00	267.03	6955.00	38.38	15.55	269.45	1362.53	1285.19	17.62	
8300.00	8435.73	90.00	267.03	6955.00	40.29	16.22	269.45	1361.24	1280.05	16.77	
8400.00	8535.72	90.00	267.03	6955.00	42.30	16.90	269.45	1359.96	1274.44	15.90	
8500.00	8635.71	90.00	267.03	6955.00	44.40	17.58	269.45	1358.68	1268.86	15.13	
8600.00	8735.70	90.00	267.03	6955.00	46.57	18.27	269.45	1357.40	1263.08	14.39	
8700.00	8835.69	90.00	267.03	6955.00	48.80	18.96	269.45	1356.11	1257.28	13.72	
8800.00	8935.69	90.00	267.03	6955.00	51.09	19.66	269.45	1354.83	1251.36	13.09	
8900.00	9035.68	90.00	267.03	6955.00	53.43	20.36	269.45	1353.55	1245.35	12.51	
9000.00	9135.67	90.00	267.03	6955.00	55.81	21.06	269.45	1352.27	1239.24	11.96	
9100.00	9235.66	90.00	267.03	6955.00	58.23	21.76	269.45	1350.98	1233.05	11.46	
9200.00	9335.65	90.00	267.03	6955.00	60.68	22.46	269.45	1349.70	1226.80	10.98	
9300.00	9435.64	90.00	267.03	6955.00	63.16	23.16	269.45	1348.42	1220.49	10.54	
9400.00	9535.64	90.00	267.03	6955.00	65.67	23.87	269.45	1347.14	1214.14	10.13	
9500.00	9635.63	90.00	267.03	6955.00	68.20	24.57	269.45	1345.85	1207.74	9.74	
9600.00	9735.62	90.00	267.03	6955.00	70.75	25.28	269.45	1344.57	1201.30	9.38	
9700.00	9835.61	90.00	267.03	6955.00	73.31	25.99	269.45	1343.29	1194.83	9.05	
9800.00	9935.60	90.00	267.03	6955.00	75.90	26.69	269.44	1342.01	1188.33	8.73	
9900.00	10035.59	90.00	267.03	6955.00	78.50	27.40	269.44	1340.72	1181.81	8.44	
10000.00	10135.59	90.00	267.03	6955.00	81.11	28.11	269.44	1339.44	1175.26	8.16	
10100.00	10235.58	90.00	267.03	6955.00	83.74	28.82	269.44	1338.16	1168.69	7.90	
10200.00	10335.57	90.00	267.03	6955.00	86.38	29.54	269.44	1336.88	1162.10	7.65	
10300.00	10435.56	90.00	267.03	6955.00	89.02	30.25	269.44	1335.59	1155.49	7.42	
10400.00	10535.55	90.00	267.03	6955.00	91.68	30.96	269.44	1334.31	1148.87	7.20	
10500.00	10635.55	90.00	267.03	6955.00	94.34	31.67	269.44	1333.03	1142.23	6.99	
10600.00	10735.54	90.00	267.03	6955.00	97.01	32.39	269.44	1331.75	1135.58	6.79	
10700.00	10835.53	90.00	267.03	6955.00	99.69	33.10	269.44	1330.47	1128.92	6.60	
10800.00	10935.52	90.00	267.03	6955.00	102.38	33.82	269.44	1329.18	1122.25	6.42	
10900.00	11035.51	90.00	267.03	6955.00	105.07	34.53	269.44	1327.90	1115.56	6.25	
11000.00	11135.50	90.00	267.03	6955.00	107.77	35.25	269.44	1326.62	1108.87	6.09	
11100.00	11235.50	90.00	267.03	6955.00	110.47	35.97	269.44	1325.34	1102.16	5.94	
11200.00	11335.49	90.00	267.03	6955.00	113.18	36.69	269.44	1324.05	1095.45	5.79	
11300.00	11435.48	90.00	267.03	6955.00	115.89	37.40	269.44	1322.77	1088.73	5.65	
11400.00	11535.47	90.00	267.03	6955.00	118.60	38.12	269.44	1321.49	1082.01	5.52	
11500.00	11635.46	90.00	267.03	6955.00	121.32	38.84	269.44	1320.21	1075.27	5.39	

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
11600.00	11735.45	90.00	267.03	6955.00	124.05	39.56	269.44	1318.92	1068.53	5.27	
11700.00	11835.45	90.00	267.03	6955.00	126.77	40.28	269.43	1317.64	1061.79	5.15	
11800.00	11935.44	90.00	267.03	6955.00	129.50	41.00	269.43	1316.36	1055.04	5.04	
11900.00	12035.43	90.00	267.03	6955.00	132.23	41.72	269.43	1315.08	1048.28	4.93	
12000.00	12135.42	90.00	267.03	6955.00	134.97	42.44	269.43	1313.79	1041.52	4.83	
12100.00	12235.41	90.00	267.03	6955.00	137.71	43.16	269.43	1312.51	1034.75	4.73	
12200.00	12335.41	90.00	267.03	6955.00	140.45	43.88	269.43	1311.23	1027.98	4.63	
12300.00	12435.40	90.00	267.03	6955.00	143.19	44.61	269.43	1309.95	1021.21	4.54	
12400.00	12535.39	90.00	267.03	6955.00	145.93	45.33	269.43	1308.66	1014.43	4.45	
12500.00	12635.38	90.00	267.03	6955.00	148.68	46.05	269.43	1307.38	1007.65	4.36	
12600.00	12735.37	90.00	267.03	6955.00	151.43	46.77	269.43	1306.10	1000.86	4.28	
12700.00	12835.36	90.00	267.03	6955.00	154.18	47.50	269.43	1304.82	994.08	4.20	
12800.00	12935.36	90.00	267.03	6955.00	156.93	48.22	269.43	1303.53	987.28	4.12	
12900.00	13035.35	90.00	267.03	6955.00	159.69	48.94	269.43	1302.25	980.49	4.05	
13000.00	13135.34	90.00	267.03	6955.00	162.44	49.67	269.43	1300.97	973.69	3.98	
13100.00	13235.33	90.00	267.03	6955.00	165.20	50.39	269.43	1299.69	966.89	3.91	
13200.00	13335.32	90.00	267.03	6955.00	167.96	51.12	269.43	1298.40	960.09	3.84	
13300.00	13435.32	90.00	267.03	6955.00	170.72	51.84	269.43	1297.12	953.29	3.77	
13400.00	13535.31	90.00	267.03	6955.00	173.48	52.57	269.43	1295.84	946.48	3.71	
13500.00	13635.30	90.00	267.03	6955.00	176.24	53.29	269.42	1294.56	939.67	3.65	
13600.00	13735.29	90.00	267.03	6955.00	179.00	54.02	269.42	1293.28	932.86	3.59	
13700.00	13835.28	90.00	267.03	6955.00	181.77	54.74	269.42	1291.99	926.05	3.53	
13800.00	13935.27	90.00	267.03	6955.00	184.53	55.47	269.42	1290.71	919.23	3.47	
13900.00	14035.27	90.00	267.03	6955.00	187.30	56.19	269.42	1289.43	912.41	3.42	
14000.00	14135.26	90.00	267.03	6955.00	190.07	56.92	269.42	1288.15	905.60	3.37	
14100.00	14235.25	90.00	267.03	6955.00	192.84	57.64	269.42	1286.86	898.78	3.32	
14200.00	14335.24	90.00	267.03	6955.00	195.61	58.37	269.42	1285.58	891.95	3.27	
14300.00	14435.23	90.00	267.03	6955.00	198.38	59.10	269.42	1284.30	885.13	3.22	
14400.00	14535.22	90.00	267.03	6955.00	201.15	59.82	269.42	1283.02	878.31	3.17	
14500.00	14635.22	90.00	267.03	6955.00	203.92	60.55	269.42	1281.73	871.48	3.12	
14600.00	14735.21	90.00	267.03	6955.00	206.69	61.28	269.42	1280.45	864.65	3.08	
14700.00	14835.20	90.00	267.03	6955.00	209.47	62.00	269.42	1279.17	857.82	3.04	
14800.00	14935.19	90.00	267.03	6955.00	212.24	62.73	269.42	1277.89	850.99	2.99	
14900.00	15035.18	90.00	267.03	6955.00	215.01	63.46	269.42	1276.60	844.16	2.95	
15000.00	15135.18	90.00	267.03	6955.00	217.79	64.19	269.42	1275.32	837.33	2.91	
15100.00	15235.17	90.00	267.03	6955.00	220.56	64.91	269.42	1274.04	830.49	2.87	
15200.00	15335.16	90.00	267.03	6955.00	223.34	65.64	269.41	1272.76	823.66	2.83	
15300.00	15435.15	90.00	267.03	6955.00	226.12	66.37	269.41	1271.47	816.82	2.80	
15400.00	15535.14	90.00	267.03	6955.00	228.90	67.10	269.41	1270.19	809.99	2.76	
15440.87	15576.01	90.00	267.03	6955.00	230.03	67.39	269.41	1269.67	807.19	2.75	

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	180.01	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	396.15	1.92	144.12	396.13	0.76	0.76	179.62	141.62	139.35	62.36	
500.00	492.08	3.84	144.12	491.94	0.95	0.95	178.52	145.75	143.05	54.12	
600.00	587.58	5.75	144.12	587.10	1.17	1.14	176.82	152.73	149.60	48.86	
700.00	682.45	7.65	144.12	681.32	1.43	1.35	174.70	162.68	159.11	45.54	
800.00	776.48	9.53	144.12	774.29	1.72	1.56	172.34	175.73	171.70	43.59	
900.00	869.49	11.39	144.12	865.74	2.06	1.78	169.92	191.97	187.48	42.75	
1000.00	961.29	13.23	144.12	955.44	2.45	2.00	167.56	211.43	206.48	42.74	
1100.00	1051.74	15.03	144.12	1043.14	2.88	2.23	165.34	234.11	228.71	43.30	
1200.00	1140.67	16.81	144.12	1128.66	3.35	2.46	163.32	259.99	254.11	44.26	
1300.00	1227.97	18.56	144.12	1211.83	3.86	2.70	161.50	288.97	282.64	45.67	

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
1400.00	1313.94	20.28	144.12	1292.90	4.42	2.94	51.75	319.96	313.21	47.36	
1500.00	1405.49	20.88	144.12	1378.50	5.06	3.21	50.39	351.20	343.98	48.67	
1600.00	1501.07	20.88	144.12	1467.80	5.74	3.51	49.59	380.53	372.81	49.31	
1700.00	1597.30	20.88	144.12	1557.71	6.44	3.81	49.26	407.69	399.42	49.33	
1800.00	1694.07	20.88	144.12	1648.12	7.14	4.12	49.32	432.66	423.84	49.03	
1900.00	1791.27	20.88	144.12	1738.93	7.85	4.43	49.71	455.48	446.05	48.32	
2000.00	1888.76	20.88	144.12	1830.03	8.57	4.75	50.39	476.20	466.09	47.13	
2100.00	1986.44	20.88	144.12	1921.29	9.29	5.07	51.33	494.91	484.05	45.55	
2200.00	2084.19	20.88	144.12	2012.61	10.01	5.39	52.63	512.53	500.84	43.82	
2300.00	2181.93	20.88	144.12	2103.93	10.74	5.71	53.88	530.39	517.82	42.20	
2400.00	2279.67	20.88	144.12	2195.26	11.46	6.03	55.06	548.48	535.01	40.72	
2500.00	2377.41	20.88	144.12	2286.58	12.19	6.35	56.15	566.78	552.36	39.31	
2600.00	2475.15	20.88	144.12	2377.90	12.92	6.68	57.18	585.27	569.88	38.03	
2700.00	2572.89	20.88	144.12	2469.22	13.64	7.00	58.15	603.94	587.54	36.84	
2800.00	2670.64	20.88	144.12	2560.54	14.37	7.33	59.06	622.76	605.35	35.77	
2900.00	2768.38	20.88	144.12	2651.86	15.10	7.65	59.92	641.72	623.28	34.80	
3000.00	2866.12	20.88	144.12	2743.19	15.83	7.98	60.72	660.82	641.34	33.93	
3100.00	2963.86	20.88	144.12	2834.51	16.56	8.30	61.49	680.04	659.51	33.13	
3200.00	3061.60	20.88	144.12	2925.83	17.29	8.63	62.21	699.37	677.75	32.36	
3300.00	3159.34	20.88	144.12	3017.15	18.02	8.96	62.89	718.80	696.09	31.66	
3400.00	3257.09	20.88	144.12	3108.47	18.75	9.29	63.54	738.32	714.52	31.02	
3500.00	3354.83	20.88	144.12	3199.79	19.48	9.61	64.15	757.93	733.03	30.44	
3600.00	3452.57	20.88	144.12	3291.12	20.21	9.94	64.73	777.62	751.61	29.90	
3700.00	3550.31	20.88	144.12	3382.44	20.94	10.27	65.29	797.38	770.27	29.41	
3800.00	3648.05	20.88	144.12	3473.76	21.67	10.60	65.81	817.21	788.99	28.95	
3900.00	3745.79	20.88	144.12	3565.08	22.41	10.93	66.31	837.11	807.77	28.53	
4000.00	3843.54	20.88	144.12	3656.40	23.14	11.25	66.79	857.06	826.59	28.13	
4100.00	3941.28	20.88	144.12	3747.72	23.87	11.58	67.25	877.07	845.46	27.74	
4200.00	4039.02	20.88	144.12	3839.05	24.60	11.91	67.69	897.14	864.38	27.39	
4300.00	4136.76	20.88	144.12	3930.37	25.33	12.24	68.11	917.24	883.34	27.06	
4400.00	4234.50	20.88	144.12	4021.69	26.06	12.57	68.51	937.40	902.35	26.74	
4500.00	4332.24	20.88	144.12	4113.01	26.80	12.90	68.89	957.60	921.40	26.45	
4600.00	4429.99	20.88	144.12	4204.33	27.53	13.23	69.26	977.83	940.48	26.18	
4700.00	4527.73	20.88	144.12	4295.65	28.26	13.56	69.61	998.10	959.58	25.91	
4800.00	4625.47	20.88	144.12	4386.98	28.99	13.89	69.95	1018.41	978.72	25.65	
4900.00	4723.21	20.88	144.12	4478.30	29.72	14.22	70.27	1038.75	997.88	25.41	
5000.00	4820.95	20.88	144.12	4569.62	30.46	14.54	70.59	1059.13	1017.07	25.19	
5100.00	4918.69	20.88	144.12	4660.94	31.19	14.87	70.89	1079.53	1036.30	24.97	
5200.00	5016.44	20.88	144.12	4752.26	31.92	15.20	71.18	1099.96	1055.55	24.77	
5300.00	5114.18	20.88	144.12	4843.58	32.65	15.53	71.46	1120.41	1074.82	24.58	
5400.00	5211.92	20.88	144.12	4934.91	33.39	15.86	71.73	1140.89	1094.12	24.40	
5500.00	5309.66	20.88	144.12	5026.23	34.12	16.19	71.99	1161.39	1113.45	24.22	
5600.00	5407.40	20.88	144.12	5117.55	34.85	16.52	72.24	1181.92	1132.79	24.06	
5700.00	5505.14	20.88	144.12	5208.87	35.58	16.85	72.48	1202.46	1152.15	23.90	
5800.00	5602.89	20.88	144.12	5300.19	36.32	17.18	72.71	1223.03	1171.54	23.75	
5900.00	5700.63	20.88	144.12	5391.51	37.05	17.51	72.94	1243.62	1190.94	23.61	
6000.00	5798.37	20.88	144.12	5482.84	37.78	17.84	73.16	1264.22	1210.36	23.47	
6100.00	5896.11	20.88	144.12	5574.16	38.51	18.17	73.37	1284.84	1229.80	23.34	
6200.00	5993.85	20.88	144.12	5665.48	39.25	18.50	73.58	1305.48	1249.25	23.22	
6300.00	6091.73	20.88	144.12	5756.93	39.98	18.83	61.86	1325.63	1268.42	23.17	
6400.00	6189.00	20.88	144.12	5847.81	40.71	19.16	14.49	1344.15	1286.50	23.31	
6500.00	6283.78	20.88	144.12	5936.36	41.42	19.48	318.51	1361.06	1303.43	23.61	
6600.00	6374.22	20.88	144.12	6020.86	42.10	19.79	300.24	1376.79	1319.66	24.10	
6700.00	6458.58	20.88	144.12	6099.68	42.73	20.07	292.70	1392.09	1335.88	24.77	
6800.00	6535.20	20.88	144.12	6171.27	43.30	20.33	288.47	1407.92	1352.83	25.56	
6900.00	6602.59	20.88	144.12	6234.23	43.81	20.56	285.81	1425.31	1371.66	26.57	
7000.00	6670.87	18.95	155.92	6298.37	44.15	20.77	283.90	1445.07	1393.04	27.77	
7100.00	6747.23	17.78	175.03	6370.91	44.08	20.94	282.32	1467.23	1416.52	28.93	

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
7200.00	6834.82	18.86	197.20	6454.15	43.46	21.02	280.85	1491.61	1442.00	30.07	
7300.00	6942.62	23.12	218.33	6554.92	42.00	20.96	279.12	1517.81	1468.61	30.85	
7400.00	7091.41	31.90	235.99	6686.98	38.92	20.52	276.52	1544.92	1495.63	31.34	
7500.00	7335.68	49.03	250.81	6872.55	32.75	18.31	271.95	1570.35	1519.57	30.93	
7600.00	7796.66	83.68	264.94	7055.43	29.64	10.70	265.89	1585.27	1527.87	27.62	
7700.00	7965.52	90.00	266.98	7060.00	31.21	12.68	265.73	1584.40	1523.61	26.06	
7800.00	8065.51	90.00	266.98	7060.00	32.33	13.23	265.73	1583.22	1519.88	25.00	
7900.00	8165.51	90.00	266.98	7060.00	33.65	13.83	265.72	1582.04	1515.77	23.87	
8000.00	8265.50	90.00	266.98	7060.00	35.12	14.46	265.72	1580.87	1511.38	22.75	
8100.00	8365.49	90.00	266.98	7060.00	36.75	15.12	265.72	1579.69	1506.72	21.65	
8200.00	8465.49	90.00	266.98	7060.00	38.51	15.79	265.71	1578.51	1501.82	20.58	
8300.00	8565.48	90.00	266.98	7060.00	40.38	16.47	265.71	1577.34	1496.86	19.60	
8400.00	8665.47	90.00	266.98	7060.00	42.35	17.17	265.71	1576.16	1491.55	18.63	
8500.00	8765.47	90.00	266.98	7060.00	44.41	17.86	265.70	1574.98	1486.13	17.73	
8600.00	8865.46	90.00	266.98	7060.00	46.55	18.57	265.70	1573.81	1480.49	16.86	
8700.00	8965.45	90.00	266.98	7060.00	48.76	19.27	265.70	1572.63	1474.78	16.07	
8800.00	9065.45	90.00	266.98	7060.00	51.02	19.98	265.69	1571.45	1468.90	15.32	
8900.00	9165.44	90.00	266.98	7060.00	53.33	20.69	265.69	1570.28	1462.97	14.63	
9000.00	9265.43	90.00	266.98	7060.00	55.69	21.40	265.69	1569.10	1456.97	13.99	
9100.00	9365.42	90.00	266.98	7060.00	58.09	22.10	265.68	1567.92	1450.92	13.40	
9200.00	9465.42	90.00	266.98	7060.00	60.52	22.81	265.68	1566.75	1444.80	12.85	
9300.00	9565.41	90.00	266.98	7060.00	62.99	23.53	265.68	1565.57	1438.64	12.33	
9400.00	9665.40	90.00	266.98	7060.00	65.48	24.24	265.67	1564.40	1432.44	11.86	
9500.00	9765.40	90.00	266.98	7060.00	68.00	24.95	265.67	1563.22	1426.20	11.41	
9600.00	9865.39	90.00	266.98	7060.00	70.53	25.66	265.67	1562.04	1419.93	10.99	
9700.00	9965.38	90.00	266.98	7060.00	73.09	26.37	265.66	1560.87	1413.62	10.60	
9800.00	10065.38	90.00	266.98	7060.00	75.66	27.08	265.66	1559.69	1407.28	10.23	
9900.00	10165.37	90.00	266.98	7060.00	78.25	27.80	265.66	1558.51	1400.89	9.89	
10000.00	10265.36	90.00	266.98	7060.00	80.86	28.51	265.65	1557.34	1394.46	9.56	
10100.00	10365.35	90.00	266.98	7060.00	83.48	29.22	265.65	1556.16	1388.00	9.25	
10200.00	10465.35	90.00	266.98	7060.00	86.10	29.94	265.65	1554.98	1381.53	8.96	
10300.00	10565.34	90.00	266.98	7060.00	88.74	30.65	265.64	1553.81	1375.04	8.69	
10400.00	10665.33	90.00	266.98	7060.00	91.39	31.37	265.64	1552.63	1368.54	8.43	
10500.00	10765.33	90.00	266.98	7060.00	94.05	32.08	265.64	1551.45	1362.02	8.19	
10600.00	10865.32	90.00	266.98	7060.00	96.72	32.80	265.63	1550.28	1355.48	7.96	
10700.00	10965.31	90.00	266.98	7060.00	99.39	33.52	265.63	1549.10	1348.94	7.74	
10800.00	11065.31	90.00	266.98	7060.00	102.07	34.23	265.63	1547.93	1342.39	7.53	
10900.00	11165.30	90.00	266.98	7060.00	104.75	34.95	265.62	1546.75	1335.82	7.33	
11000.00	11265.29	90.00	266.98	7060.00	107.45	35.67	265.62	1545.57	1329.25	7.14	
11100.00	11365.28	90.00	266.98	7060.00	110.14	36.39	265.62	1544.40	1322.66	6.97	
11200.00	11465.28	90.00	266.98	7060.00	112.85	37.11	265.61	1543.22	1316.07	6.79	
11300.00	11565.27	90.00	266.98	7060.00	115.55	37.83	265.61	1542.04	1309.47	6.63	
11400.00	11665.26	90.00	266.98	7060.00	118.27	38.54	265.61	1540.87	1302.87	6.47	
11500.00	11765.26	90.00	266.98	7060.00	120.98	39.26	265.60	1539.69	1296.25	6.32	
11600.00	11865.25	90.00	266.98	7060.00	123.70	39.98	265.60	1538.52	1289.64	6.18	
11700.00	11965.24	90.00	266.98	7060.00	126.42	40.71	265.60	1537.34	1283.01	6.04	
11800.00	12065.24	90.00	266.98	7060.00	129.15	41.43	265.59	1536.16	1276.38	5.91	
11900.00	12165.23	90.00	266.98	7060.00	131.88	42.15	265.59	1534.99	1269.75	5.79	
12000.00	12265.22	90.00	266.98	7060.00	134.61	42.87	265.59	1533.81	1263.11	5.67	
12100.00	12365.22	90.00	266.98	7060.00	137.35	43.59	265.58	1532.63	1256.46	5.55	
12200.00	12465.21	90.00	266.98	7060.00	140.08	44.31	265.58	1531.46	1249.82	5.44	
12300.00	12565.20	90.00	266.98	7060.00	142.82	45.03	265.58	1530.28	1243.16	5.33	
12400.00	12665.19	90.00	266.98	7060.00	145.57	45.76	265.57	1529.10	1236.51	5.23	
12500.00	12765.19	90.00	266.98	7060.00	148.31	46.48	265.57	1527.93	1229.85	5.13	
12600.00	12865.18	90.00	266.98	7060.00	151.06	47.20	265.57	1526.75	1223.19	5.03	
12700.00	12965.17	90.00	266.98	7060.00	153.80	47.93	265.56	1525.58	1216.52	4.94	
12800.00	13065.17	90.00	266.98	7060.00	156.55	48.65	265.56	1524.40	1209.85	4.85	
12900.00	13165.16	90.00	266.98	7060.00	159.31	49.37	265.56	1523.22	1203.18	4.76	

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
13000.00	13265.15	90.00	266.98	7060.00	162.06	50.10	265.55	1522.05	1196.51	4.68	
13100.00	13365.15	90.00	266.98	7060.00	164.82	50.82	265.55	1520.87	1189.83	4.59	
13200.00	13465.14	90.00	266.98	7060.00	167.57	51.55	265.55	1519.69	1183.15	4.52	
13300.00	13565.13	90.00	266.98	7060.00	170.33	52.27	265.54	1518.52	1176.47	4.44	
13400.00	13665.12	90.00	266.98	7060.00	173.09	53.00	265.54	1517.34	1169.79	4.37	
13500.00	13765.12	90.00	266.98	7060.00	175.85	53.72	265.54	1516.17	1163.10	4.29	
13600.00	13865.11	90.00	266.98	7060.00	178.61	54.45	265.53	1514.99	1156.41	4.23	
13700.00	13965.10	90.00	266.98	7060.00	181.37	55.17	265.53	1513.81	1149.72	4.16	
13800.00	14065.10	90.00	266.98	7060.00	184.14	55.90	265.53	1512.64	1143.03	4.09	
13900.00	14165.09	90.00	266.98	7060.00	186.90	56.63	265.52	1511.46	1136.34	4.03	
14000.00	14265.08	90.00	266.98	7060.00	189.67	57.35	265.52	1510.28	1129.64	3.97	
14100.00	14365.08	90.00	266.98	7060.00	192.44	58.08	265.52	1509.11	1122.95	3.91	
14200.00	14465.07	90.00	266.98	7060.00	195.20	58.80	265.51	1507.93	1116.25	3.85	
14300.00	14565.06	90.00	266.98	7060.00	197.97	59.53	265.51	1506.76	1109.55	3.79	
14400.00	14665.06	90.00	266.98	7060.00	200.74	60.26	265.50	1505.58	1102.85	3.74	
14500.00	14765.05	90.00	266.98	7060.00	203.51	60.98	265.50	1504.40	1096.15	3.68	
14600.00	14865.04	90.00	266.98	7060.00	206.28	61.71	265.50	1503.23	1089.44	3.63	
14700.00	14965.03	90.00	266.98	7060.00	209.06	62.44	265.49	1502.05	1082.74	3.58	
14800.00	15065.03	90.00	266.98	7060.00	211.83	63.16	265.49	1500.88	1076.03	3.53	
14900.00	15165.02	90.00	266.98	7060.00	214.60	63.89	265.49	1499.70	1069.33	3.48	
15000.00	15265.01	90.00	266.98	7060.00	217.38	64.62	265.48	1498.52	1062.62	3.44	
15100.00	15365.01	90.00	266.98	7060.00	220.15	65.35	265.48	1497.35	1055.91	3.39	
15200.00	15465.00	90.00	266.98	7060.00	222.93	66.07	265.48	1496.17	1049.20	3.35	
15300.00	15564.99	90.00	266.98	7060.00	225.70	66.80	265.47	1494.99	1042.49	3.30	
15400.00	15664.99	90.00	266.98	7060.00	228.48	67.53	265.47	1493.82	1035.78	3.26	
15440.87	15705.85	90.00	266.98	7060.00	229.61	67.83	265.47	1493.34	1033.03	3.24	