

**5D Plan Report**

Synergy Resources

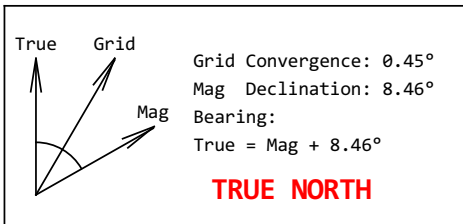
Field Name: *CO N - NAD 83*
Site Name: *Goetzel 25-29 Pad*
Well Name: *Goetzel 12N-30C-M*
Plan: *P1:V1*

5 December 2016





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



Plan Data for Goetzel 12N-30C-M

Plan Point Information:

DogLeg Severity Unit: °/100.00ft

Position offsets from Slot centre

MD	Inc	Az	TVD	+N/-S	+E/-W	VSec	DLS	Toolface
(USft)	(°)	(°)	(USft)	(USft)	(USft)	(USft)	(DLSU)	(°)
0.00	0.00	0.00	0.00	-0.00	0.00	-0.00	0.00	0.0
1700.00	0.00	0.00	1700.00	-0.00	0.00	-0.00	0.00	0.0
2545.40	16.91	93.20	2533.18	-6.91	123.64	-122.84	2.00	93.2
6257.85	16.91	93.20	6085.15	-67.19	1201.67	-1193.83	0.00	0.0
7592.98	90.00	267.13	7008.00	-131.14	518.42	-507.76	8.00	173.7
15501.26	90.00	267.13	7008.00	-527.13	-7379.94	7398.74	0.00	0.0

Target Set Information:

Name: Goetzel 12N-30C-M

Position offsets from Slot centre

Name	TVD	+N/-S	+E/-W	Northing	Easting	Lat	Long
	(USft)	(USft)	(USft)	(USft)	(USft)	(°)	(°)
LP 12N-30C-M	7008.00	-131.14	518.42	1410315.90	3194157.31	40.457622	-104.802272
PBHL 12N-30C-M	7008.00	-527.13	-7379.94	1409857.94	3186262.30	40.456532	-104.830655



Drawing By: GWR Date: 12/05/2016
Weatherford Drilling Services
7725 W. Reno, Ste. #220
Oklahoma City, OK 73127
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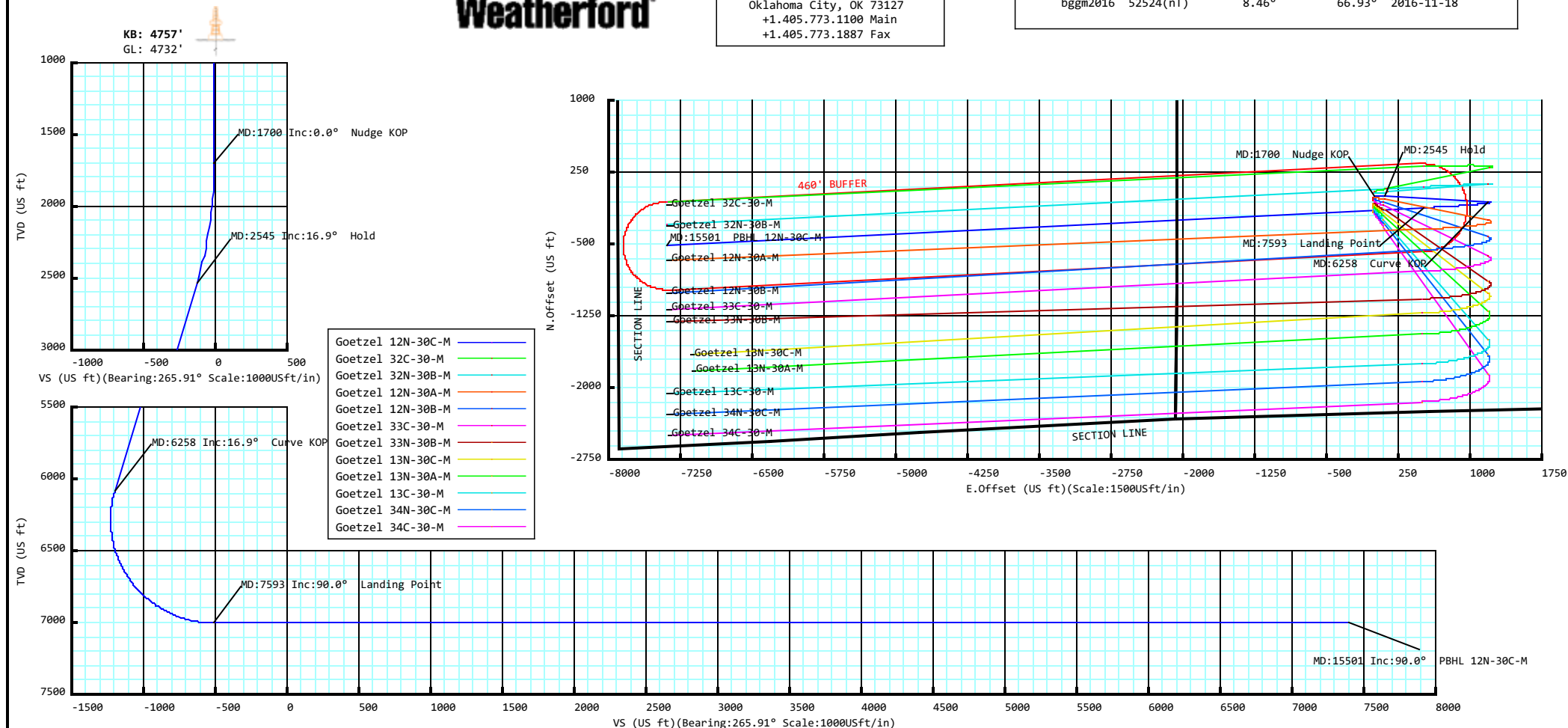
Plan Data for Goetzel 12N-30C-M

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

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

Slot: Goetzel 12N-30C-M
Position:
Offset is from Site centre
+N/-S: -40.07USft Northing: 1410442.97USft Latitude: 40.457982°
+E/-W: -0.28USft Easting: 3193637.87USft Longitude: -104.804135°
Elevation Above VRD: 4732.00USft

Well: Goetzel 12N-30C-M
Type: Main-Well
File Number:
Plan Folder: P1
Plan: P1:V1
Vertical Section: Position offset of origin from Slot centre:
+N/-S: 0.00USft
+E/-W: 0.00USft
Azimuth: 265.91°
Magnetic Parameters:
Model: Field Strength: Declination: Dip: Date:
bggm2016 52524(nT) 8.46° 66.93° 2016-11-18



Goetzel 12N-30C-M

Field Name: CO N - NAD 83	Map Units: US ft		Company Name: Synergy Resources	
	Vertical Reference Datum (VRD): Mean Sea Level			
	Projected Coordinate System: NAD83 / Colorado North (ftUS)			
	Comment:			
Site: Goetzel 25-29 Pad	Units: US ft	North Reference: True		Convergence Angle: 0.45
	Position:	Northing: 1410483.05 US ft		Latitude: 40.458092000
		Easting: 3193637.83 US ft		Longitude: -104.804134000
	Elevation above MSL:4732.00 US ft			
Comment:				
Slot: Goetzel 12N-30C-M	Position (Relative to Site Centre)			
	+N/-S: -40.07 US ft	Northing: 1410442.97 US ft		Latitude: 40.457982000
	+E/-W: -0.28 US ft	Easting: 3193637.87 US ft		Longitude: -104.804135000
	Slot TVD Reference: Ground Elevation			
	Elevation above MSL: 4732.00 US ft			
Comment:				
Well: Goetzel 12N-30C-M	Type:Main well		UWI:	Plan:P1:V1
	File Number:	Comment:		
	Closure Distance:7398.74US ft		Closure Azimuth:265.91°	
	Vertical Section: Position of Origin (Relative to Slot centre)			
	+N/-S: 0.00 US ft		+E/-W: 0.00 US ft	Az: 265.91°
	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-30C-M Comment:

Target Name:	Shape:	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (USFt)	Easting (USFt)	Comment
LP 12N-30C-M	Point	7008.00	-131.14	518.42	1410315.90	3194157.31	
PBHL 12N-30C-M	Point	7008.00	-527.13	-7379.94	1409857.94	3186262.30	

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	
1700.00	0.00	0.00	1700.00	-0.00	-0.00	0.00	0.00	0.00	0.00	Nudge KOP
2545.40	16.91	93.20	2533.18	-122.84	-6.91	123.64	2.00	0.00	2.00	Hold
6257.85	16.91	93.20	6085.15	-1193.83	-67.19	1201.67	0.00	0.00	0.00	Curve KOP
7592.98	90.00	267.13	7008.00	-507.76	-131.14	518.42	5.47	13.03	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
15501.26	90.00	267.13	7008.00	7398.74	-527.13	-7379.94	0.00	0.00	0.00	PBHL 12N-30C-M
Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	B.Rate (°/100US ft)	T.Rate (°/100US ft)	DLS (°/100US ft)	Comment
0.00	0.00	0.00	0.00	-0.00	-0.00	0.00	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	-0.00	-0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	-0.00	-0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	-0.00	-0.00	0.00	0.00	0.00	0.00	
400.00	0.00	0.00	400.00	-0.00	-0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	-0.00	-0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	-0.00	-0.00	0.00	0.00	0.00	0.00	
700.00	0.00	0.00	700.00	-0.00	-0.00	0.00	0.00	0.00	0.00	
800.00	0.00	0.00	800.00	-0.00	-0.00	0.00	0.00	0.00	0.00	
900.00	0.00	0.00	900.00	-0.00	-0.00	0.00	0.00	0.00	0.00	
1000.00	0.00	0.00	1000.00	-0.00	-0.00	0.00	0.00	0.00	0.00	
1100.00	0.00	0.00	1100.00	-0.00	-0.00	0.00	0.00	0.00	0.00	
1200.00	0.00	0.00	1200.00	-0.00	-0.00	0.00	0.00	0.00	0.00	
1300.00	0.00	0.00	1300.00	-0.00	-0.00	0.00	0.00	0.00	0.00	
1400.00	0.00	0.00	1400.00	-0.00	-0.00	0.00	0.00	0.00	0.00	
1500.00	0.00	0.00	1500.00	-0.00	-0.00	0.00	0.00	0.00	0.00	
1600.00	0.00	0.00	1600.00	-0.00	-0.00	0.00	0.00	0.00	0.00	
1700.00	0.00	0.00	1700.00	-0.00	-0.00	0.00	0.00	0.00	0.00	
1800.00	2.00	93.20	1799.98	-1.73	-0.10	1.74	2.00	0.00	2.00	Nudge KOP
1900.00	4.00	93.20	1899.84	-6.92	-0.39	6.97	2.00	-0.00	2.00	
2000.00	6.00	93.20	1999.45	-15.57	-0.88	15.67	2.00	-0.00	2.00	
2100.00	8.00	93.20	2098.70	-27.65	-1.56	27.84	2.00	-0.00	2.00	
2200.00	10.00	93.20	2197.47	-43.17	-2.43	43.45	2.00	-0.00	2.00	
2300.00	12.00	93.20	2295.62	-62.10	-3.49	62.50	2.00	-0.00	2.00	
2400.00	14.00	93.20	2393.06	-84.41	-4.75	84.96	2.00	0.00	2.00	
2500.00	16.00	93.20	2489.64	-110.08	-6.20	110.80	2.00	0.00	2.00	
2545.40	16.91	93.20	2533.18	-122.84	-6.91	123.64	2.00	0.00	2.00	Hold
2600.00	16.91	93.20	2585.42	-138.59	-7.80	139.50	0.00	0.00	0.00	
2700.00	16.91	93.20	2681.10	-167.44	-9.42	168.54	0.00	0.00	0.00	
2800.00	16.91	93.20	2776.78	-196.29	-11.05	197.57	0.00	0.00	0.00	
2900.00	16.91	93.20	2872.45	-225.13	-12.67	226.61	0.00	0.00	0.00	
3000.00	16.91	93.20	2968.13	-253.98	-14.29	255.65	0.00	0.00	0.00	
3100.00	16.91	93.20	3063.81	-282.83	-15.92	284.69	0.00	0.00	0.00	
3200.00	16.91	93.20	3159.49	-311.68	-17.54	313.73	0.00	0.00	0.00	
3300.00	16.91	93.20	3255.16	-340.53	-19.16	342.77	0.00	0.00	0.00	
3400.00	16.91	93.20	3350.84	-369.38	-20.79	371.80	0.00	0.00	0.00	
3500.00	16.91	93.20	3446.52	-398.23	-22.41	400.84	0.00	0.00	0.00	
3600.00	16.91	93.20	3542.20	-427.08	-24.03	429.88	0.00	0.00	0.00	
3700.00	16.91	93.20	3637.87	-455.92	-25.66	458.92	0.00	0.00	0.00	
3800.00	16.91	93.20	3733.55	-484.77	-27.28	487.96	0.00	0.00	0.00	
3900.00	16.91	93.20	3829.23	-513.62	-28.91	516.99	0.00	0.00	0.00	
4000.00	16.91	93.20	3924.91	-542.47	-30.53	546.03	0.00	0.00	0.00	
4100.00	16.91	93.20	4020.58	-571.32	-32.15	575.07	0.00	0.00	0.00	
4200.00	16.91	93.20	4116.26	-600.17	-33.78	604.11	0.00	0.00	0.00	
4300.00	16.91	93.20	4211.94	-629.02	-35.40	633.15	0.00	0.00	0.00	
4400.00	16.91	93.20	4307.61	-657.86	-37.02	662.19	0.00	0.00	0.00	
4500.00	16.91	93.20	4403.29	-686.71	-38.65	691.22	0.00	0.00	0.00	
4600.00	16.91	93.20	4498.97	-715.56	-40.27	720.26	0.00	0.00	0.00	
4700.00	16.91	93.20	4594.65	-744.41	-41.89	749.30	0.00	0.00	0.00	
4800.00	16.91	93.20	4690.32	-773.26	-43.52	778.34	0.00	0.00	0.00	
4900.00	16.91	93.20	4786.00	-802.11	-45.14	807.38	0.00	0.00	0.00	
5000.00	16.91	93.20	4881.68	-830.96	-46.76	836.41	0.00	0.00	0.00	
5100.00	16.91	93.20	4977.36	-859.81	-48.39	865.45	0.00	0.00	0.00	
5200.00	16.91	93.20	5073.03	-888.65	-50.01	894.49	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	16.91	93.20	5168.71	-917.50	-51.63	923.53	0.00	0.00	0.00	
5400.00	16.91	93.20	5264.39	-946.35	-53.26	952.57	0.00	0.00	0.00	
5500.00	16.91	93.20	5360.06	-975.20	-54.88	981.61	0.00	0.00	0.00	
5600.00	16.91	93.20	5455.74	-1004.05	-56.51	1010.64	0.00	0.00	0.00	
5700.00	16.91	93.20	5551.42	-1032.90	-58.13	1039.68	0.00	0.00	0.00	
5800.00	16.91	93.20	5647.10	-1061.75	-59.75	1068.72	0.00	0.00	0.00	
5900.00	16.91	93.20	5742.77	-1090.60	-61.38	1097.76	0.00	0.00	0.00	
6000.00	16.91	93.20	5838.45	-1119.44	-63.00	1126.80	0.00	0.00	0.00	
6100.00	16.91	93.20	5934.13	-1148.29	-64.62	1155.83	0.00	0.00	0.00	
6200.00	16.91	93.20	6029.81	-1177.14	-66.25	1184.87	0.00	0.00	0.00	
6257.85	16.91	93.20	6085.15	-1193.83	-67.19	1201.67	0.00	0.00	0.00	Curve KOP
6300.00	13.56	94.79	6125.82	-1204.80	-67.94	1212.72	-7.94	3.77	8.00	
6400.00	5.74	105.78	6224.33	-1221.11	-70.28	1229.24	-7.82	10.99	8.00	
6500.00	3.15	231.45	6324.17	-1223.55	-73.36	1231.91	-2.59	125.67	8.00	
6600.00	10.72	257.35	6423.38	-1212.07	-77.12	1220.66	7.56	25.90	8.00	
6700.00	18.65	261.66	6520.04	-1186.88	-81.48	1195.73	7.93	4.31	8.00	
6800.00	26.62	263.45	6612.27	-1148.49	-86.36	1157.59	7.97	1.79	8.00	
6900.00	34.60	264.46	6698.26	-1097.64	-91.67	1106.98	7.98	1.01	8.00	
7000.00	42.59	265.13	6776.35	-1035.31	-97.29	1044.90	7.99	0.67	8.00	
7100.00	50.59	265.62	6845.01	-962.73	-103.13	972.55	7.99	0.49	8.00	
7200.00	58.58	266.00	6902.92	-881.30	-109.06	891.34	7.99	0.39	8.00	
7300.00	66.57	266.33	6948.94	-792.61	-114.98	802.84	7.99	0.33	8.00	
7400.00	74.57	266.62	6982.17	-698.39	-120.77	708.79	8.00	0.29	8.00	
7500.00	82.57	266.89	7001.98	-600.46	-126.31	611.01	8.00	0.27	8.00	
7592.98	90.00	267.13	7008.00	-507.76	-131.14	518.42	8.00	0.26	8.00	Landing Point
7600.00	90.00	267.13	7008.00	-500.74	-131.49	511.41	0.00	0.00	0.00	
7700.00	90.00	267.13	7008.00	-400.76	-136.50	411.53	0.00	0.00	0.00	
7800.00	90.00	267.13	7008.00	-300.78	-141.51	311.66	0.00	0.00	0.00	
7900.00	90.00	267.13	7008.00	-200.81	-146.52	211.78	0.00	0.00	0.00	
8000.00	90.00	267.13	7008.00	-100.83	-151.52	111.91	0.00	0.00	0.00	
8100.00	90.00	267.13	7008.00	-0.85	-156.53	12.04	0.00	0.00	0.00	
8200.00	90.00	267.13	7008.00	99.13	-161.54	-87.84	0.00	0.00	0.00	
8300.00	90.00	267.13	7008.00	199.10	-166.55	-187.71	0.00	0.00	0.00	
8400.00	90.00	267.13	7008.00	299.08	-171.55	-287.59	0.00	0.00	0.00	
8500.00	90.00	267.13	7008.00	399.06	-176.56	-387.46	0.00	0.00	0.00	
8600.00	90.00	267.13	7008.00	499.04	-181.57	-487.34	0.00	0.00	0.00	
8700.00	90.00	267.13	7008.00	599.01	-186.57	-587.21	0.00	0.00	0.00	
8800.00	90.00	267.13	7008.00	698.99	-191.58	-687.09	0.00	0.00	0.00	
8900.00	90.00	267.13	7008.00	798.97	-196.59	-786.96	0.00	0.00	0.00	
9000.00	90.00	267.13	7008.00	898.95	-201.60	-886.84	0.00	0.00	0.00	
9100.00	90.00	267.13	7008.00	998.92	-206.60	-986.71	0.00	0.00	0.00	
9200.00	90.00	267.13	7008.00	1098.90	-211.61	-1086.58	0.00	0.00	0.00	
9300.00	90.00	267.13	7008.00	1198.88	-216.62	-1186.46	0.00	0.00	0.00	
9400.00	90.00	267.13	7008.00	1298.86	-221.63	-1286.33	0.00	0.00	0.00	
9500.00	90.00	267.13	7008.00	1398.83	-226.63	-1386.21	0.00	0.00	0.00	
9600.00	90.00	267.13	7008.00	1498.81	-231.64	-1486.08	0.00	0.00	0.00	
9700.00	90.00	267.13	7008.00	1598.79	-236.65	-1585.96	0.00	0.00	0.00	
9800.00	90.00	267.13	7008.00	1698.77	-241.66	-1685.83	0.00	0.00	0.00	
9900.00	90.00	267.13	7008.00	1798.74	-246.66	-1785.71	0.00	0.00	0.00	
10000.00	90.00	267.13	7008.00	1898.72	-251.67	-1885.58	0.00	0.00	0.00	
10100.00	90.00	267.13	7008.00	1998.70	-256.68	-1985.46	0.00	0.00	0.00	
10200.00	90.00	267.13	7008.00	2098.68	-261.68	-2085.33	0.00	0.00	0.00	
10300.00	90.00	267.13	7008.00	2198.65	-266.69	-2185.20	0.00	0.00	0.00	
10400.00	90.00	267.13	7008.00	2298.63	-271.70	-2285.08	0.00	0.00	0.00	
10500.00	90.00	267.13	7008.00	2398.61	-276.71	-2384.95	0.00	0.00	0.00	
10600.00	90.00	267.13	7008.00	2498.59	-281.71	-2484.83	0.00	0.00	0.00	
10700.00	90.00	267.13	7008.00	2598.56	-286.72	-2584.70	0.00	0.00	0.00	
10800.00	90.00	267.13	7008.00	2698.54	-291.73	-2684.58	0.00	0.00	0.00	
10900.00	90.00	267.13	7008.00	2798.52	-296.74	-2784.45	0.00	0.00	0.00	

5D Plan Report

Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)										Comment
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N. Offset (US ft)	E. Offset (US ft)	B. Rate (°/100US ft)	T. Rate (°/100US ft)	DLS (°/100US ft)	
11000.00	90.00	267.13	7008.00	2898.50	-301.74	-2884.33	0.00	0.00	0.00	
11100.00	90.00	267.13	7008.00	2998.47	-306.75	-2984.20	0.00	0.00	0.00	
11200.00	90.00	267.13	7008.00	3098.45	-311.76	-3084.08	0.00	0.00	0.00	
11300.00	90.00	267.13	7008.00	3198.43	-316.76	-3183.95	0.00	0.00	0.00	
11400.00	90.00	267.13	7008.00	3298.41	-321.77	-3283.83	0.00	0.00	0.00	
11500.00	90.00	267.13	7008.00	3398.38	-326.78	-3383.70	0.00	0.00	0.00	
11600.00	90.00	267.13	7008.00	3498.36	-331.79	-3483.57	0.00	0.00	0.00	
11700.00	90.00	267.13	7008.00	3598.34	-336.79	-3583.45	0.00	0.00	0.00	
11800.00	90.00	267.13	7008.00	3698.32	-341.80	-3683.32	0.00	0.00	0.00	
11900.00	90.00	267.13	7008.00	3798.29	-346.81	-3783.20	0.00	0.00	0.00	
12000.00	90.00	267.13	7008.00	3898.27	-351.82	-3883.07	0.00	0.00	0.00	
12100.00	90.00	267.13	7008.00	3998.25	-356.82	-3982.95	0.00	0.00	0.00	
12200.00	90.00	267.13	7008.00	4098.23	-361.83	-4082.82	0.00	0.00	0.00	
12300.00	90.00	267.13	7008.00	4198.20	-366.84	-4182.70	0.00	0.00	0.00	
12400.00	90.00	267.13	7008.00	4298.18	-371.84	-4282.57	0.00	0.00	0.00	
12500.00	90.00	267.13	7008.00	4398.16	-376.85	-4382.45	0.00	0.00	0.00	
12600.00	90.00	267.13	7008.00	4498.14	-381.86	-4482.32	0.00	0.00	0.00	
12700.00	90.00	267.13	7008.00	4598.11	-386.87	-4582.19	0.00	0.00	0.00	
12800.00	90.00	267.13	7008.00	4698.09	-391.87	-4682.07	0.00	0.00	0.00	
12900.00	90.00	267.13	7008.00	4798.07	-396.88	-4781.94	0.00	0.00	0.00	
13000.00	90.00	267.13	7008.00	4898.05	-401.89	-4881.82	0.00	0.00	0.00	
13100.00	90.00	267.13	7008.00	4998.02	-406.90	-4981.69	0.00	0.00	0.00	
13200.00	90.00	267.13	7008.00	5098.00	-411.90	-5081.57	0.00	0.00	0.00	
13300.00	90.00	267.13	7008.00	5197.98	-416.91	-5181.44	0.00	0.00	0.00	
13400.00	90.00	267.13	7008.00	5297.96	-421.92	-5281.32	0.00	0.00	0.00	
13500.00	90.00	267.13	7008.00	5397.93	-426.93	-5381.19	0.00	0.00	0.00	
13600.00	90.00	267.13	7008.00	5497.91	-431.93	-5481.07	0.00	0.00	0.00	
13700.00	90.00	267.13	7008.00	5597.89	-436.94	-5580.94	0.00	0.00	0.00	
13800.00	90.00	267.13	7008.00	5697.87	-441.95	-5680.81	0.00	0.00	0.00	
13900.00	90.00	267.13	7008.00	5797.84	-446.95	-5780.69	0.00	0.00	0.00	
14000.00	90.00	267.13	7008.00	5897.82	-451.96	-5880.56	0.00	0.00	0.00	
14100.00	90.00	267.13	7008.00	5997.80	-456.97	-5980.44	0.00	0.00	0.00	
14200.00	90.00	267.13	7008.00	6097.78	-461.98	-6080.31	0.00	0.00	0.00	
14300.00	90.00	267.13	7008.00	6197.75	-466.98	-6180.19	0.00	0.00	0.00	
14400.00	90.00	267.13	7008.00	6297.73	-471.99	-6280.06	0.00	0.00	0.00	
14500.00	90.00	267.13	7008.00	6397.71	-477.00	-6379.94	0.00	0.00	0.00	
14600.00	90.00	267.13	7008.00	6497.69	-482.01	-6479.81	0.00	0.00	0.00	
14700.00	90.00	267.13	7008.00	6597.66	-487.01	-6579.69	0.00	0.00	0.00	
14800.00	90.00	267.13	7008.00	6697.64	-492.02	-6679.56	0.00	0.00	0.00	
14900.00	90.00	267.13	7008.00	6797.62	-497.03	-6779.43	0.00	0.00	0.00	
15000.00	90.00	267.13	7008.00	6897.60	-502.03	-6879.31	0.00	0.00	0.00	
15100.00	90.00	267.13	7008.00	6997.57	-507.04	-6979.18	0.00	0.00	0.00	
15200.00	90.00	267.13	7008.00	7097.55	-512.05	-7079.06	0.00	0.00	0.00	
15300.00	90.00	267.13	7008.00	7197.53	-517.06	-7178.93	0.00	0.00	0.00	
15400.00	90.00	267.13	7008.00	7297.51	-522.06	-7278.81	0.00	0.00	0.00	
15500.00	90.00	267.13	7008.00	7397.48	-527.07	-7378.68	0.00	0.00	0.00	
15501.26	90.00	267.13	7008.00	7398.74	-527.13	-7379.94	0.00	0.00	0.00	PBHL 12N-30C-M



Synergy Resources

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

5 December 2016

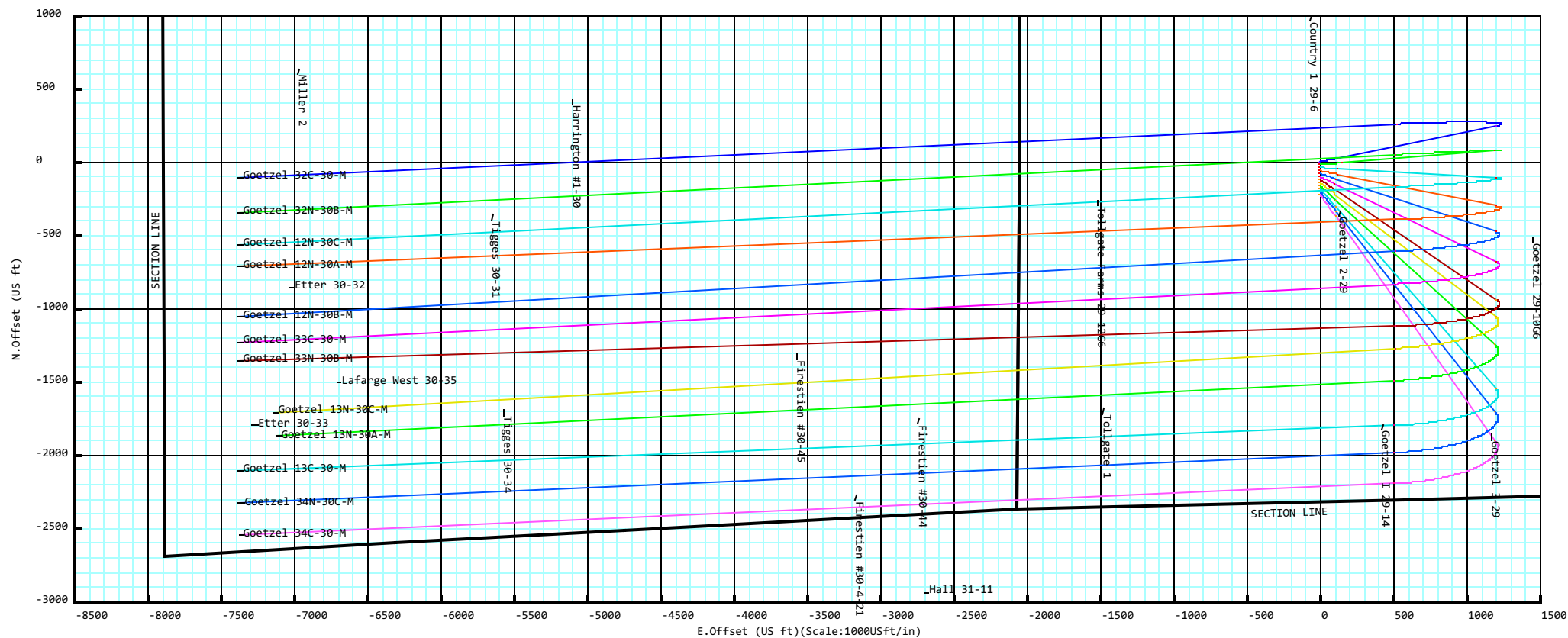




Goetzel Pad
Weld County, CO
Precision 562

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

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



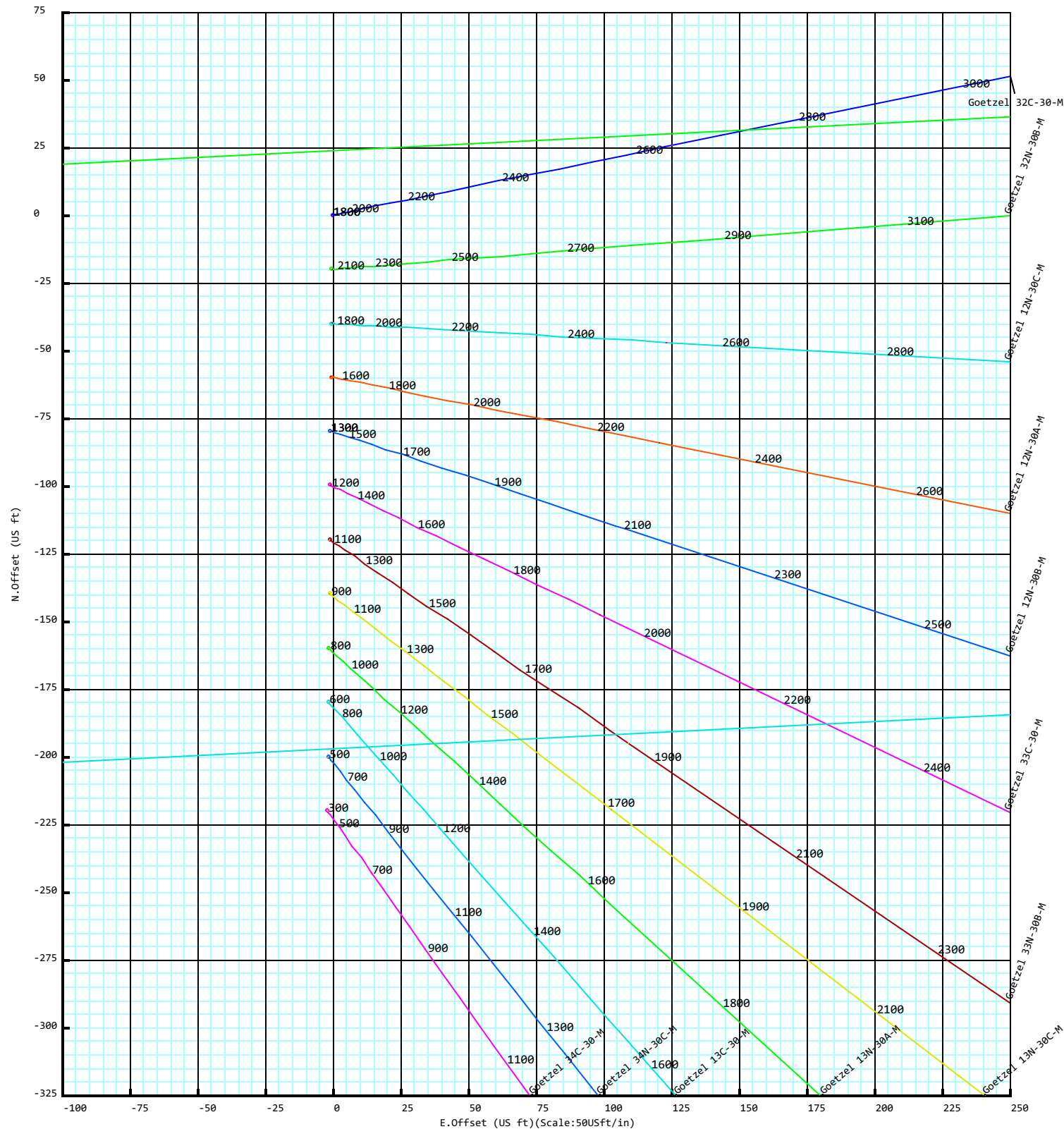


Goetzl Pad
Weld County, CO
Precision 562

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



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



Goetzel 12N-30C-M

Field Name: CO N - NAD 83	Map Units: US ft		Company Name: Synergy Resources	
	Vertical Reference Datum (VRD): Mean Sea Level			
	Projected Coordinate System: NAD83 / Colorado North (ftUS)			
	Comment:			
Site: Goetzel 25-29 Pad	Units: US ft	North Reference: True		Convergence Angle: 0.45
	Position:	Northing: 1410483.05 US ft		Latitude: 40.458092000
		Easting: 3193637.83 US ft		Longitude: -104.804134000
	Elevation above MSL:4732.00 US ft			
Comment:				
Slot: Goetzel 12N-30C-M	Position (Relative to Site Centre)			
	+N/-S: -40.07 US ft	Northing: 1410442.97 US ft		Latitude: 40.457982000
	+E/-W: -0.28 US ft	Easting: 3193637.87 US ft		Longitude: -104.804135000
	Slot TVD Reference: Ground Elevation			
	Elevation above MSL: 4732.00 US ft			
	Comment:			
Well: Goetzel 12N-30C-M	Type:Main well		UWI:	Plan:Working Plan
	File Number:	Comment:		
	Closure Distance:7398.74US ft		Closure Azimuth:265.91°	
	Vertical Section: Position of Origin (Relative to Slot centre)			
	+N/-S: 0.00 US ft		+E/-W: 0.00 US ft	Az: 265.91°
	Magnetic Parameters:			
	Model: bggm2016	Field Strength: 52524.7nT	Declination: 8.46°	Dip: 66.93°
	Date: 18/Nov/2016			

Drill floor: Plan: Working Plan

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

Primary Well	Start MD (USFt)	End MD (USFt)	Collision Risk Interval	No. of Std. Deviations in Error Computation
Goetzel 12N-30C-M (p)	0.00	15501.26	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)
 Goetzel 32C-30-M (p)
 Goetzel 32N-30B-M (p)
 Goetzel 12N-30A-M (p)
 Goetzel 12N-30B-M (p)
 Goetzel 33C-30-M (p)
 Goetzel 33N-30B-M (p)
 Goetzel 13N-30C-M (p)
 Goetzel 13N-30A-M (p)
 Goetzel 13C-30-M (p)
 Goetzel 34N-30C-M (p)
 Goetzel 34C-30-M (p)

5D Anti-Collision Report

Anti-Collision Report Terminology

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

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

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

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

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

AC Filter Info: No filter has been applied.

Default Survey Tool: MWD

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

5D Anti-Collision Report

Anti-Collision Summary (TVD relative to Drill Floor)

SF							
Secondary Well Name	Pri MD (US ft)	Sec MD (US ft)	TVD (US ft)	CC (US ft)	ES (US ft)	SF	Risk
Tollgate Farms 29-12G6 (s)	9631.64	6981.00	7008.00	11.05	-270.73	0.04	SF(Hi); CC (Hi)
Tigges 30-31 (s)	13759.38	6991.00	7008.00	116.03	-278.19	0.29	SF(Hi)
Goetzel 32N-30B-M (p)	15491.99	15473.86	7008.00	226.90	-229.03	0.50	SF(Hi)
Goetzel 2-29 (s)	7978.52	6980.00	7008.00	149.79	-94.24	0.61	SF(Hi)
Etter 30-32 (s)	15160.55	6991.00	7008.00	310.78	-122.17	0.72	SF(Hi)
Goetzel 12N-30A-M (p)	15501.26	15316.46	7008.00	230.52	-79.91	0.74	SF(Hi)
Goetzel 32C-30-M (p)	15487.30	15644.54	7008.00	477.82	31.41	1.07	SF(Med)
Goetzel 12N-30B-M (p)	15501.26	15414.12	7008.00	497.30	37.07	1.08	SF(Med)
Goetzel 33C-30-M (p)	15501.26	15569.16	7008.00	668.24	208.55	1.45	SF(Med)
Goetzel 33N-30B-M (p)	15501.26	15435.13	7008.00	793.79	332.04	1.72	SF(Lo)
Goetzel 29-10G6 (s)	6593.55	6384.04	6417.04	462.66	245.98	2.14	SF(Lo)
Lafarge West 30-35 (s)	14892.77	6983.00	7008.00	973.59	548.62	2.29	SF(Lo)
Goetzel 13N-30C-M (p)	15369.34	15286.68	7008.00	1155.82	701.79	2.55	
Goetzel 13N-30A-M (p)	15381.45	15136.85	7008.00	1336.54	887.60	2.98	
Goetzel 13C-30-M (p)	15501.26	15644.97	7008.00	1540.38	1077.77	3.33	
Goetzel 34N-30C-M (p)	15501.26	15555.58	7008.00	1763.60	1301.16	3.81	
Goetzel 34C-30-M (p)	15501.26	15684.92	7008.00	1982.54	1520.69	4.29	
CC							
Secondary Well Name	Pri MD (US ft)	Sec MD (US ft)	TVD (US ft)	CC (US ft)	ES (US ft)	SF	Risk
Tollgate Farms 29-12G6 (s)	9631.45	6981.00	7008.00	11.05	-270.59	0.04	SF(Hi); CC (Hi)
Goetzel 12N-30A-M (p)	0.00	0.00	0.00	19.67	18.94	26.83	CC (Med)
Goetzel 32N-30B-M (p)	0.00	0.00	0.00	20.04	19.30	27.32	CC (Med)
Goetzel 12N-30B-M (p)	0.00	0.00	0.00	39.71	38.98	54.16	CC (Lo)
Goetzel 32C-30-M (p)	50.00	50.00	50.00	40.07	39.23	47.50	CC (Lo)
Goetzel 33C-30-M (p)	50.00	50.00	50.00	59.75	58.90	70.82	CC (Lo)
Goetzel 33N-30B-M (p)	0.00	0.00	0.00	79.79	79.05	108.80	
Goetzel 13N-30C-M (p)	50.00	50.00	50.00	99.82	98.98	118.32	
Tigges 30-31 (s)	13757.23	6991.00	7008.00	116.01	-278.00	0.29	SF(Hi)
Goetzel 13N-30A-M (p)	0.00	0.00	0.00	119.86	119.13	163.45	
Goetzel 13C-30-M (p)	50.00	50.00	50.00	139.90	139.05	165.83	
Goetzel 2-29 (s)	7981.84	6980.00	7008.00	149.75	-94.10	0.61	SF(Hi)
Goetzel 34N-30C-M (p)	50.00	50.00	50.00	159.93	159.09	189.58	
Goetzel 34C-30-M (p)	50.00	50.00	50.00	179.97	179.13	213.33	
Etter 30-32 (s)	15161.33	6991.00	7008.00	310.77	-122.17	0.72	SF(Hi)
Goetzel 29-10G6 (s)	6514.26	6305.40	6338.40	460.61	246.06	2.15	SF(Lo)
Lafarge West 30-35 (s)	14874.61	6983.00	7008.00	973.42	548.68	2.29	SF(Lo)

5D Anti-Collision Report

Primary Well: Goetzel 12N-30C-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Nearest Well	Risk
0.00	0.00	0.00	0.00	0.00	0.00	180.36	19.67	18.94	26.83	Goetzel 12N-30A-M (p)	CC (Med)
100.00	0.00	0.00	100.00	0.11	0.11	180.36	19.67	18.72	20.62	Goetzel 12N-30A-M (p)	CC (Med)
200.00	0.00	0.00	200.00	0.34	0.34	180.36	19.67	18.27	14.02	Goetzel 12N-30A-M (p)	CC (Med)
300.00	0.00	0.00	300.00	0.56	0.56	180.36	19.67	17.82	10.62	Goetzel 12N-30A-M (p)	CC (Med)
400.00	0.00	0.00	400.00	0.79	0.79	180.36	19.67	17.37	8.54	Goetzel 12N-30A-M (p)	CC (Med)
500.00	0.00	0.00	500.00	1.01	1.01	180.36	19.67	16.92	7.15	Goetzel 12N-30A-M (p)	CC (Med)
600.00	0.00	0.00	600.00	1.24	1.24	180.36	19.67	16.47	6.14	Goetzel 12N-30A-M (p)	CC (Med)
700.00	0.00	0.00	700.00	1.46	1.46	180.36	19.67	16.02	5.39	Goetzel 12N-30A-M (p)	CC (Med)
800.00	0.00	0.00	800.00	1.69	1.69	180.36	19.67	15.57	4.80	Goetzel 12N-30A-M (p)	CC (Med)
900.00	0.00	0.00	900.00	1.91	1.91	180.36	19.67	15.12	4.32	Goetzel 12N-30A-M (p)	CC (Med)
1000.00	0.00	0.00	1000.00	2.14	2.14	180.36	19.67	14.67	3.93	Goetzel 12N-30A-M (p)	CC (Med)
1100.00	0.00	0.00	1100.00	2.36	2.36	180.36	19.67	14.22	3.61	Goetzel 12N-30A-M (p)	CC (Med)
1200.00	0.00	0.00	1200.00	2.58	2.58	180.36	19.67	13.78	3.34	Goetzel 12N-30A-M (p)	CC (Med)
1300.00	0.00	0.00	1300.00	2.81	2.81	180.36	19.67	13.33	3.10	Goetzel 12N-30A-M (p)	CC (Med)
1400.00	0.00	0.00	1400.00	3.03	3.03	180.36	19.67	12.88	2.89	Goetzel 12N-30A-M (p)	CC (Med)
1500.00	0.00	0.00	1500.00	3.26	3.26	179.12	19.76	12.53	2.73	Goetzel 12N-30A-M (p)	CC (Med)
1600.00	0.00	0.00	1600.00	3.48	3.48	359.55	20.04	12.34	2.60	Goetzel 32N-30B-M (p)	CC (Med)
1700.00	0.00	0.00	1700.00	3.71	3.71	359.55	20.04	11.89	2.46	Goetzel 32N-30B-M (p)	SF(Lo); CC (Med)
1800.00	2.00	92.75	1799.98	3.92	3.92	261.86	20.21	11.64	2.36	Goetzel 32N-30B-M (p)	SF(Lo); CC (Med)
1900.00	4.00	92.75	1899.84	4.12	4.11	248.01	21.58	12.58	2.40	Goetzel 32N-30B-M (p)	SF(Lo); CC (Med)
2000.00	6.00	92.75	1999.45	4.33	4.30	230.11	26.13	16.71	2.77	Goetzel 32N-30B-M (p)	CC (Med)
2100.00	8.00	92.75	2098.70	4.56	4.49	216.71	33.98	24.15	3.46	Goetzel 32N-30B-M (p)	CC (Lo)
2200.00	10.00	92.75	2197.47	4.81	4.69	209.14	43.21	32.99	4.23	Goetzel 32N-30B-M (p)	CC (Lo)
2300.00	12.00	92.75	2295.62	5.09	4.88	72.98	306.01	234.22	4.26	Goetzel 2- 29 (s)	CC (Lo)
2300.00	12.00	92.75	2295.62	5.09	4.88	204.74	53.13	42.51	5.00	Goetzel 32N-30B-M (p)	
2400.00	14.00	92.75	2393.06	5.42	5.07	77.10	300.06	224.80	3.99	Goetzel 2- 29 (s)	

5D Anti-Collision Report

Primary Well: Goetzel 12N-30C-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Nearest Well	Risk
2400.00	14.00	92.75	2393.06	5.42	5.07	244.79	61.98	50.60	5.45	Goetzel 32C-30-M (p)	CC (Lo)
2500.00	16.00	92.75	2489.64	5.79	5.27	81.94	295.20	216.81	3.77	Goetzel 2- 29 (s)	
2500.00	16.00	92.75	2489.64	5.79	5.27	243.77	68.96	56.94	5.74	Goetzel 32C-30-M (p)	
2600.00	16.91	92.75	2585.42	6.22	5.49	87.32	292.39	210.46	3.57	Goetzel 2- 29 (s)	
2600.00	16.91	92.75	2585.42	6.22	5.49	243.47	76.55	63.80	6.00	Goetzel 32C-30-M (p)	
2700.00	16.91	92.75	2681.10	6.68	5.73	92.77	292.42	207.33	3.44	Goetzel 2- 29 (s)	
2700.00	16.91	92.75	2681.10	6.68	5.73	245.09	83.64	70.02	6.14	Goetzel 32C-30-M (p)	
2800.00	16.91	92.75	2776.78	7.16	5.98	98.18	295.32	206.67	3.33	Goetzel 2- 29 (s)	
2800.00	16.91	92.75	2776.78	7.16	5.98	246.84	90.70	76.13	6.23	Goetzel 32C-30-M (p)	
2900.00	16.91	92.75	2872.45	7.67	6.23	103.44	301.02	209.10	3.27	Goetzel 2- 29 (s)	
2900.00	16.91	92.75	2872.45	7.67	6.23	41.23	93.59	79.06	6.44	Goetzel 12N-30A-M (p)	
3000.00	16.91	92.75	2968.13	8.19	6.48	108.48	309.36	214.03	3.25	Goetzel 2- 29 (s)	
3000.00	16.91	92.75	2968.13	8.19	6.48	43.20	96.13	80.72	6.24	Goetzel 12N-30A-M (p)	
3100.00	16.91	92.75	3063.81	8.72	6.74	113.25	320.13	221.54	3.25	Goetzel 2- 29 (s)	
3100.00	16.91	92.75	3063.81	8.72	6.74	210.06	95.91	80.90	6.39	Goetzel 32N-30B-M (p)	
3200.00	16.91	92.75	3159.49	9.27	7.01	117.69	333.10	231.13	3.27	Goetzel 2- 29 (s)	
3200.00	16.91	92.75	3159.49	9.27	7.01	213.16	95.69	79.80	6.02	Goetzel 32N-30B-M (p)	
3300.00	16.91	92.75	3255.16	9.83	7.27	121.80	348.02	243.05	3.32	Goetzel 2- 29 (s)	
3300.00	16.91	92.75	3255.16	9.83	7.27	216.27	95.75	78.89	5.68	Goetzel 32N-30B-M (p)	
3400.00	16.91	92.75	3350.84	10.39	7.54	125.58	364.66	256.17	3.36	Goetzel 2- 29 (s)	
3400.00	16.91	92.75	3350.84	10.39	7.54	219.37	96.10	78.17	5.36	Goetzel 32N-30B-M (p)	
3500.00	16.91	92.75	3446.52	10.96	7.82	129.03	382.78	271.21	3.43	Goetzel 2- 29 (s)	
3500.00	16.91	92.75	3446.52	10.96	7.82	222.43	96.72	77.64	5.07	Goetzel 32N-30B-M (p)	
3600.00	16.91	92.75	3542.20	11.53	8.09	132.18	402.20	287.53	3.51	Goetzel 2- 29 (s)	
3600.00	16.91	92.75	3542.20	11.53	8.09	225.45	97.62	77.32	4.81	Goetzel 32N-30B-M (p)	
3700.00	16.91	92.75	3637.87	12.11	8.37	135.04	422.72	304.69	3.58	Goetzel 2- 29 (s)	
3700.00	16.91	92.75	3637.87	12.11	8.37	228.41	98.79	77.19	4.57	Goetzel 32N-30B-M (p)	
3800.00	16.91	92.75	3733.55	12.70	8.65	137.64	444.20	323.02	3.67	Goetzel 2- 29 (s)	
3800.00	16.91	92.75	3733.55	12.70	8.65	231.29	100.21	77.29	4.37	Goetzel 32N-30B-M (p)	

5D Anti-Collision Report

Primary Well: Goetzel 12N-30C-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Nearest Well	Risk
3900.00	16.91	92.75	3829.23	13.29	8.93	140.00	466.51	342.38	3.76	Goetzel 2- 29 (s)	
3900.00	16.91	92.75	3829.23	13.29	8.93	234.08	101.87	77.58	4.19	Goetzel 32N-30B-M (p)	
4000.00	16.91	92.75	3924.91	13.88	9.21	142.16	489.53	362.23	3.85	Goetzel 2- 29 (s)	
4000.00	16.91	92.75	3924.91	13.88	9.21	236.77	103.77	78.10	4.04	Goetzel 32N-30B-M (p)	
4100.00	16.91	92.75	4020.58	14.47	9.49	239.37	105.90	78.79	3.91	Goetzel 32N-30B-M (p)	
4200.00	16.91	92.75	4116.26	15.07	9.78	241.85	108.23	79.71	3.80	Goetzel 32N-30B-M (p)	
4300.00	16.91	92.75	4211.94	15.66	10.06	244.23	110.76	80.79	3.70	Goetzel 32N-30B-M (p)	
4400.00	16.91	92.75	4307.61	16.26	10.35	246.50	113.47	82.06	3.61	Goetzel 32N-30B-M (p)	
4500.00	16.91	92.75	4403.29	16.87	10.64	248.66	116.34	83.53	3.55	Goetzel 32N-30B-M (p)	
4600.00	16.91	92.75	4498.97	17.47	10.93	250.71	119.38	85.12	3.48	Goetzel 32N-30B-M (p)	
4700.00	16.91	92.75	4594.65	18.07	11.22	252.66	122.56	86.89	3.44	Goetzel 32N-30B-M (p)	
4800.00	16.91	92.75	4690.32	18.68	11.51	254.51	125.88	88.82	3.40	Goetzel 32N-30B-M (p)	
4900.00	16.91	92.75	4786.00	19.29	11.80	256.26	129.32	90.89	3.37	Goetzel 32N-30B-M (p)	
5000.00	16.91	92.75	4881.68	19.89	12.09	257.92	132.88	93.05	3.34	Goetzel 32N-30B-M (p)	
5100.00	16.91	92.75	4977.36	20.50	12.38	259.49	136.54	95.35	3.32	Goetzel 32N-30B-M (p)	
5200.00	16.91	92.75	5073.03	21.11	12.68	260.98	140.30	97.77	3.30	Goetzel 32N-30B-M (p)	
5300.00	16.91	92.75	5168.71	21.72	12.97	262.39	144.14	100.30	3.29	Goetzel 32N-30B-M (p)	
5400.00	16.91	92.75	5264.39	22.33	13.27	263.73	148.07	102.91	3.28	Goetzel 32N-30B-M (p)	
5500.00	16.91	92.75	5360.06	22.95	13.56	265.00	152.08	105.59	3.27	Goetzel 32N-30B-M (p)	
5600.00	16.91	92.75	5455.74	23.56	13.86	266.20	156.16	108.36	3.27	Goetzel 32N-30B-M (p)	
5700.00	16.91	92.75	5551.42	24.17	14.15	43.13	589.83	405.91	3.21	Goetzel 29- 10G6 (s)	
5700.00	16.91	92.75	5551.42	24.17	14.15	267.34	160.30	111.22	3.27	Goetzel 32N-30B-M (p)	
5800.00	16.91	92.75	5647.10	24.79	14.45	45.10	568.51	380.60	3.03	Goetzel 29- 10G6 (s)	
5800.00	16.91	92.75	5647.10	24.79	14.45	268.42	164.51	114.15	3.27	Goetzel 32N-30B-M (p)	
5900.00	16.91	92.75	5742.77	25.40	14.74	47.20	547.90	355.97	2.85	Goetzel 29- 10G6 (s)	
5900.00	16.91	92.75	5742.77	25.40	14.74	269.45	168.77	117.15	3.27	Goetzel 32N-30B-M (p)	
6000.00	16.91	92.75	5838.45	26.01	15.04	49.46	528.09	332.34	2.70	Goetzel 29- 10G6 (s)	

5D Anti-Collision Report

Primary Well: Goetzel 12N-30C-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Nearest Well	Risk
6000.00	16.91	92.75	5838.45	26.01	15.04	270.42	173.08	120.22	3.27	Goetzel 32N-30B-M (p)	
6100.00	16.91	92.75	5934.13	26.63	15.34	51.88	509.16	309.90	2.56	Goetzel 29-10G6 (s)	
6100.00	16.91	92.75	5934.13	26.63	15.34	271.35	177.43	123.35	3.28	Goetzel 32N-30B-M (p)	
6200.00	16.91	92.75	6029.81	27.24	15.64	54.47	491.24	288.17	2.42	Goetzel 29-10G6 (s)	SF(Lo)
6200.00	16.91	92.75	6029.81	27.24	15.64	272.23	181.83	126.54	3.29	Goetzel 32N-30B-M (p)	
6300.00	13.56	94.34	6125.82	27.81	15.95	55.13	474.97	267.59	2.29	Goetzel 29-10G6 (s)	SF(Lo)
6300.00	13.56	94.34	6125.82	27.81	15.95	269.33	185.39	128.95	3.28	Goetzel 32N-30B-M (p)	
6400.00	5.74	105.33	6224.33	28.10	16.05	45.12	464.66	253.69	2.20	Goetzel 29-10G6 (s)	SF(Lo)
6400.00	5.74	105.33	6224.33	28.10	16.05	256.14	188.89	131.84	3.31	Goetzel 32N-30B-M (p)	
6500.00	3.15	231.00	6324.17	28.21	15.86	279.40	460.68	246.54	2.15	Goetzel 29-10G6 (s)	SF(Lo)
6500.00	3.15	231.00	6324.17	28.21	15.86	128.26	192.66	135.43	3.37	Goetzel 32N-30B-M (p)	
6600.00	10.72	256.90	6423.38	28.16	15.38	252.36	463.02	246.18	2.14	Goetzel 29-10G6 (s)	SF(Lo)
6600.00	10.72	256.90	6423.38	28.16	15.38	100.20	196.63	139.57	3.45	Goetzel 32N-30B-M (p)	
6700.00	18.65	261.21	6520.04	27.99	14.64	246.05	472.54	253.88	2.16	Goetzel 29-10G6 (s)	SF(Lo)
6700.00	18.65	261.21	6520.04	27.99	14.64	93.82	200.72	144.09	3.54	Goetzel 32N-30B-M (p)	
6800.00	26.62	263.00	6612.27	27.75	13.67	241.81	490.71	269.83	2.22	Goetzel 29-10G6 (s)	SF(Lo)
6800.00	26.62	263.00	6612.27	27.75	13.67	90.10	204.82	148.75	3.65	Goetzel 32N-30B-M (p)	
6900.00	34.60	264.01	6698.26	27.46	12.55	238.43	519.11	296.85	2.34	Goetzel 29-10G6 (s)	SF(Lo)
6900.00	34.60	264.01	6698.26	27.46	12.55	87.31	208.83	153.38	3.77	Goetzel 32N-30B-M (p)	
7000.00	42.59	264.68	6776.35	27.20	11.36	235.99	558.93	335.42	2.50	Goetzel 29-10G6 (s)	
7000.00	42.59	264.68	6776.35	27.20	11.36	85.04	212.64	157.76	3.87	Goetzel 32N-30B-M (p)	
7100.00	50.59	265.17	6845.01	27.03	10.23	234.80	610.55	386.13	2.72	Goetzel 29-10G6 (s)	
7100.00	50.59	265.17	6845.01	27.03	10.23	83.14	216.13	161.66	3.97	Goetzel 32N-30B-M (p)	
7200.00	58.58	265.56	6902.92	27.00	9.34	235.31	673.46	448.08	2.99	Goetzel 29-10G6 (s)	
7200.00	58.58	265.56	6902.92	27.00	9.34	81.56	219.22	164.86	4.03	Goetzel 32N-30B-M (p)	
7300.00	66.57	265.88	6948.94	27.17	8.90	332.10	690.67	465.37	3.07	Goetzel 2-29 (s)	
7300.00	66.57	265.88	6948.94	27.17	8.90	80.26	221.79	167.14	4.06	Goetzel 32N-30B-M (p)	
7400.00	74.57	266.17	6982.17	27.58	9.03	316.74	598.83	371.94	2.64	Goetzel 2-29 (s)	
7400.00	74.57	266.17	6982.17	27.58	9.03	79.22	223.78	168.32	4.03	Goetzel 32N-30B-M (p)	

5D Anti-Collision Report

Primary Well: Goetzel 12N-30C-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Nearest Well	Risk
7500.00	82.57	266.44	7001.98	28.22	9.74	292.87	504.46	276.31	2.21	Goetzel 2- 29 (s)	SF(Lo)
7500.00	82.57	266.44	7001.98	28.22	9.74	78.45	225.13	168.42	3.97	Goetzel 32N-30B-M (p)	
7600.00	90.00	266.68	7008.00	29.06	10.83	270.00	410.23	181.70	1.80	Goetzel 2- 29 (s)	SF(Lo)
7600.00	90.00	266.68	7008.00	29.06	10.83	77.98	225.73	167.39	3.87	Goetzel 32N-30B-M (p)	
7700.00	90.00	266.68	7008.00	30.11	11.30	270.00	319.22	88.29	1.38	Goetzel 2- 29 (s)	SF(Med)
7700.00	90.00	266.68	7008.00	30.11	11.30	77.98	225.75	165.28	3.73	Goetzel 32N-30B-M (p)	
7800.00	90.00	266.68	7008.00	31.38	11.79	270.00	235.63	1.51	1.01	Goetzel 2- 29 (s)	SF(Med)
7800.00	90.00	266.68	7008.00	31.38	11.79	77.98	225.76	162.78	3.58	Goetzel 32N-30B-M (p)	
7900.00	90.00	266.68	7008.00	32.84	12.31	270.00	170.69	-68.93	0.71	Goetzel 2- 29 (s)	SF(Hi)
8000.00	90.00	266.68	7008.00	34.46	12.85	270.00	150.84	-93.24	0.62	Goetzel 2- 29 (s)	SF(Hi)
8100.00	90.00	266.68	7008.00	36.23	13.41	270.00	190.71	-48.80	0.80	Goetzel 2- 29 (s)	SF(Hi)
8200.00	90.00	266.68	7008.00	38.12	13.99	270.00	264.55	29.86	1.13	Goetzel 2- 29 (s)	SF(Med)
8200.00	90.00	266.68	7008.00	38.12	13.99	77.99	225.82	149.59	2.96	Goetzel 32N-30B-M (p)	
8300.00	90.00	266.68	7008.00	40.11	14.58	270.00	351.57	119.74	1.52	Goetzel 2- 29 (s)	SF(Lo)
8300.00	90.00	266.68	7008.00	40.11	14.58	77.99	225.84	145.69	2.82	Goetzel 32N-30B-M (p)	
8400.00	90.00	266.68	7008.00	42.20	15.18	270.00	444.09	214.15	1.93	Goetzel 2- 29 (s)	SF(Lo)
8400.00	90.00	266.68	7008.00	42.20	15.18	77.99	225.85	141.62	2.68	Goetzel 32N-30B-M (p)	
8500.00	90.00	266.68	7008.00	44.37	15.79	270.00	539.29	310.12	2.35	Goetzel 2- 29 (s)	SF(Lo)
8500.00	90.00	266.68	7008.00	44.37	15.79	77.99	225.87	137.39	2.55	Goetzel 32N-30B-M (p)	
8600.00	90.00	266.68	7008.00	46.60	16.41	77.99	225.88	133.04	2.43	Goetzel 32N-30B-M (p)	SF(Lo)
8700.00	90.00	266.68	7008.00	48.89	17.05	77.99	225.90	128.57	2.32	Goetzel 32N-30B-M (p)	SF(Lo)
8800.00	90.00	266.68	7008.00	51.23	17.69	77.99	225.91	124.00	2.22	Goetzel 32N-30B-M (p)	SF(Lo)
8900.00	90.00	266.68	7008.00	53.62	18.33	77.99	225.92	119.35	2.12	Goetzel 32N-30B-M (p)	SF(Lo)
9000.00	90.00	266.68	7008.00	56.04	18.99	77.99	225.94	114.62	2.03	Goetzel 32N-30B-M (p)	SF(Lo)
9100.00	90.00	266.68	7008.00	58.50	19.64	77.99	225.95	109.83	1.95	Goetzel 32N-30B-M (p)	SF(Lo)
9200.00	90.00	266.68	7008.00	60.98	20.31	78.00	225.97	104.98	1.87	Goetzel 32N-30B-M (p)	SF(Lo)
9300.00	90.00	266.68	7008.00	63.50	20.98	90.00	331.58	105.50	1.47	Tollgate Farms 29- 12G6 (s)	SF(Med)
9300.00	90.00	266.68	7008.00	63.50	20.98	78.00	225.98	100.08	1.79	Goetzel 32N-30B-M (p)	SF(Lo)
9400.00	90.00	266.68	7008.00	66.03	21.65	90.00	231.66	5.37	1.02		SF(Med)

5D Anti-Collision Report

Primary Well: Goetzel 12N-30C-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Nearest Well	Risk
9400.00	90.00	266.68	7008.00	66.03	21.65	78.00	226.00	95.14	1.73	Tollgate Farms 29- 12G6 (s) Goetzel 32N-30B-M (p)	SF(Lo)
9500.00	90.00	266.68	7008.00	68.59	22.33	90.00	131.86	-95.12	0.58	Tollgate Farms 29- 12G6 (s)	SF(Hi)
9600.00	90.00	266.68	7008.00	71.16	23.01	90.00	33.28	-204.40	0.14	Tollgate Farms 29- 12G6 (s)	SF(Hi); CC (Lo)
9700.00	90.00	266.68	7008.00	73.75	23.69	90.00	69.49	-159.84	0.30	Tollgate Farms 29- 12G6 (s)	SF(Hi)
9800.00	90.00	266.68	7008.00	76.36	24.38	90.00	168.97	-57.44	0.75	Tollgate Farms 29- 12G6 (s)	SF(Hi)
9900.00	90.00	266.68	7008.00	78.97	25.06	90.00	268.84	43.10	1.19	Tollgate Farms 29- 12G6 (s)	SF(Med)
9900.00	90.00	266.68	7008.00	78.97	25.06	78.00	226.07	69.89	1.45	Goetzel 32N-30B-M (p)	SF(Med)
10000.00	90.00	266.68	7008.00	81.60	25.76	78.00	226.09	64.76	1.40	Goetzel 32N-30B-M (p)	SF(Med)
10100.00	90.00	266.68	7008.00	84.25	26.45	78.00	226.10	59.61	1.36	Goetzel 32N-30B-M (p)	SF(Med)
10200.00	90.00	266.68	7008.00	86.90	27.14	78.00	226.12	54.44	1.32	Goetzel 32N-30B-M (p)	SF(Med)
10300.00	90.00	266.68	7008.00	89.56	27.84	78.00	226.13	49.25	1.28	Goetzel 32N-30B-M (p)	SF(Med)
10400.00	90.00	266.68	7008.00	92.22	28.54	78.00	226.14	44.04	1.24	Goetzel 32N-30B-M (p)	SF(Med)
10500.00	90.00	266.68	7008.00	94.90	29.24	78.01	226.16	38.82	1.21	Goetzel 32N-30B-M (p)	SF(Med)
10600.00	90.00	266.68	7008.00	97.58	29.94	78.01	226.17	33.59	1.17	Goetzel 32N-30B-M (p)	SF(Med)
10700.00	90.00	266.68	7008.00	100.27	30.65	78.01	226.19	28.34	1.14	Goetzel 32N-30B-M (p)	SF(Med)
10800.00	90.00	266.68	7008.00	102.96	31.35	78.01	226.20	23.09	1.11	Goetzel 32N-30B-M (p)	SF(Med)
10900.00	90.00	266.68	7008.00	105.66	32.06	78.01	226.22	17.82	1.09	Goetzel 32N-30B-M (p)	SF(Med)
11000.00	90.00	266.68	7008.00	108.37	32.77	78.01	226.23	12.54	1.06	Goetzel 32N-30B-M (p)	SF(Med)
11100.00	90.00	266.68	7008.00	111.08	33.48	78.01	226.25	7.25	1.03	Goetzel 32N-30B-M (p)	SF(Med)
11200.00	90.00	266.68	7008.00	113.79	34.19	78.01	226.26	1.96	1.01	Goetzel 32N-30B-M (p)	SF(Med)
11300.00	90.00	266.68	7008.00	116.51	34.90	78.01	226.28	-3.34	0.99	Goetzel 32N-30B-M (p)	SF(Hi)
11400.00	90.00	266.68	7008.00	119.23	35.61	78.01	226.29	-8.65	0.96	Goetzel 32N-30B-M (p)	SF(Hi)
11500.00	90.00	266.68	7008.00	121.95	36.32	78.01	226.31	-13.97	0.94	Goetzel 32N-30B-M (p)	SF(Hi)
11600.00	90.00	266.68	7008.00	124.68	37.04	78.01	226.32	-19.30	0.92	Goetzel 32N-30B-M (p)	SF(Hi)
11700.00	90.00	266.68	7008.00	127.41	37.75	78.01	226.34	-24.63	0.90		SF(Hi)

5D Anti-Collision Report

Primary Well: Goetzel 12N-30C-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Nearest Well	Risk
11800.00	90.00	266.68	7008.00	130.15	38.47	78.02	226.35	-29.96	0.88	Goetzel 32N-30B-M (p)	SF(Hi)
11900.00	90.00	266.68	7008.00	132.88	39.18	78.02	226.36	-35.30	0.87	Goetzel 32N-30B-M (p)	SF(Hi)
12000.00	90.00	266.68	7008.00	135.62	39.90	78.02	226.38	-40.65	0.85	Goetzel 32N-30B-M (p)	SF(Hi)
12100.00	90.00	266.68	7008.00	138.36	40.61	78.02	226.39	-46.00	0.83	Goetzel 32N-30B-M (p)	SF(Hi)
12200.00	90.00	266.68	7008.00	141.11	41.33	78.02	226.41	-51.35	0.82	Goetzel 32N-30B-M (p)	SF(Hi)
12300.00	90.00	266.68	7008.00	143.85	42.05	78.02	226.42	-56.71	0.80	Goetzel 32N-30B-M (p)	SF(Hi)
12400.00	90.00	266.68	7008.00	146.60	42.77	78.02	226.44	-62.08	0.78	Goetzel 32N-30B-M (p)	SF(Hi)
12500.00	90.00	266.68	7008.00	149.35	43.49	78.02	226.45	-67.44	0.77	Goetzel 32N-30B-M (p)	SF(Hi)
12600.00	90.00	266.68	7008.00	152.10	44.21	78.02	226.47	-72.81	0.76	Goetzel 32N-30B-M (p)	SF(Hi)
12700.00	90.00	266.68	7008.00	154.85	44.93	78.02	226.48	-78.19	0.74	Goetzel 32N-30B-M (p)	SF(Hi)
12800.00	90.00	266.68	7008.00	157.61	45.65	78.02	226.50	-83.56	0.73	Goetzel 32N-30B-M (p)	SF(Hi)
12900.00	90.00	266.68	7008.00	160.36	46.37	78.02	226.51	-88.94	0.72	Goetzel 32N-30B-M (p)	SF(Hi)
13000.00	90.00	266.68	7008.00	163.12	47.09	78.03	226.53	-94.32	0.71	Goetzel 32N-30B-M (p)	SF(Hi)
13100.00	90.00	266.68	7008.00	165.88	47.81	78.03	226.54	-99.71	0.69	Goetzel 32N-30B-M (p)	SF(Hi)
13200.00	90.00	266.68	7008.00	168.64	48.53	78.03	226.56	-105.10	0.68	Goetzel 32N-30B-M (p)	SF(Hi)
13300.00	90.00	266.68	7008.00	171.40	49.26	78.03	226.57	-110.49	0.67	Goetzel 32N-30B-M (p)	SF(Hi)
13400.00	90.00	266.68	7008.00	174.16	49.98	78.03	226.58	-115.88	0.66	Goetzel 32N-30B-M (p)	SF(Hi)
13500.00	90.00	266.68	7008.00	176.93	50.70	78.03	226.60	-121.28	0.65	Goetzel 32N-30B-M (p)	SF(Hi)
13600.00	90.00	266.68	7008.00	179.69	51.42	90.00	195.46	-122.40	0.61	Tigges 30- 31 (s)	SF(Hi)
13700.00	90.00	266.68	7008.00	182.46	52.15	90.00	129.39	-244.91	0.35	Tigges 30- 31 (s)	SF(Hi)
13800.00	90.00	266.68	7008.00	185.22	52.87	90.00	123.61	-259.93	0.32	Tigges 30- 31 (s)	SF(Hi)
13900.00	90.00	266.68	7008.00	187.99	53.59	90.00	183.89	-144.42	0.56	Tigges 30- 31 (s)	SF(Hi)
14000.00	90.00	266.68	7008.00	190.76	54.32	78.03	226.67	-148.28	0.60	Goetzel 32N-30B-M (p)	SF(Hi)
14100.00	90.00	266.68	7008.00	193.53	55.04	78.03	226.69	-153.69	0.60	Goetzel 32N-30B-M (p)	SF(Hi)
14200.00	90.00	266.68	7008.00	196.30	55.77	78.03	226.70	-159.09	0.59	Goetzel 32N-30B-M (p)	SF(Hi)
14300.00	90.00	266.68	7008.00	199.07	56.49	78.04	226.72	-164.50	0.58		SF(Hi)

5D Anti-Collision Report

Primary Well: Goetzel 12N-30C-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Nearest Well	Risk
14400.00	90.00	266.68	7008.00	201.84	57.22	78.04	226.73	-169.91	0.57	Goetzel 32N-30B-M (p)	SF(Hi)
14500.00	90.00	266.68	7008.00	204.61	57.94	78.04	226.75	-175.33	0.56	Goetzel 32N-30B-M (p)	SF(Hi)
14600.00	90.00	266.68	7008.00	207.39	58.67	78.04	226.76	-180.74	0.56	Goetzel 32N-30B-M (p)	SF(Hi)
14700.00	90.00	266.68	7008.00	210.16	59.40	78.04	226.78	-186.16	0.55	Goetzel 32N-30B-M (p)	SF(Hi)
14800.00	90.00	266.68	7008.00	212.94	60.12	78.04	226.79	-191.57	0.54	Goetzel 32N-30B-M (p)	SF(Hi)
14900.00	90.00	266.68	7008.00	215.71	60.85	78.04	226.80	-196.99	0.54	Goetzel 32N-30B-M (p)	SF(Hi)
15000.00	90.00	266.68	7008.00	218.49	61.57	78.04	226.82	-202.41	0.53	Goetzel 32N-30B-M (p)	SF(Hi)
15100.00	90.00	266.68	7008.00	221.26	62.30	78.04	226.83	-207.83	0.52	Goetzel 32N-30B-M (p)	SF(Hi)
15200.00	90.00	266.68	7008.00	224.04	63.03	78.04	226.85	-213.25	0.52	Goetzel 32N-30B-M (p)	SF(Hi)
15300.00	90.00	266.68	7008.00	226.82	63.75	78.04	226.86	-218.67	0.51	Goetzel 32N-30B-M (p)	SF(Hi)
15400.00	90.00	266.68	7008.00	229.59	64.48	78.04	226.88	-224.09	0.50	Goetzel 32N-30B-M (p)	SF(Hi)
15500.00	90.00	266.68	7008.00	232.37	65.21	78.04	227.09	-228.66	0.50	Goetzel 32N-30B-M (p)	SF(Hi)
15501.26	90.00	266.68	7008.00	232.41	65.22	78.04	227.14	-228.53	0.50	Goetzel 32N-30B-M (p)	SF(Hi)
Secondary Well: Goetzel 2-29 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	28.00	0.00	0.00	154.95	331.35	330.58	430.47	
100.00	72.00	0.00	0.00	100.00	1.09	1.09	154.95	330.16	328.20	167.77	
200.00	172.00	0.00	0.00	200.00	2.69	2.69	154.95	330.16	326.38	87.25	
300.00	272.00	0.00	0.00	300.00	5.73	5.73	154.95	330.16	323.13	46.94	
400.00	372.00	0.00	0.00	400.00	8.77	8.77	154.95	330.16	319.88	32.11	
500.00	472.00	0.00	0.00	500.00	11.80	11.80	154.95	330.16	316.80	24.71	
600.00	572.00	0.00	0.00	600.00	14.84	14.84	154.95	330.16	313.55	19.88	
700.00	672.00	0.00	0.00	700.00	17.88	17.88	154.95	330.16	310.30	16.62	
800.00	772.00	0.00	0.00	800.00	20.91	20.91	154.95	330.16	307.05	14.29	
900.00	872.00	0.00	0.00	900.00	23.95	23.95	154.95	330.16	303.80	12.53	
1000.00	972.00	0.00	0.00	1000.00	26.99	26.99	154.95	330.16	300.56	11.15	
1100.00	1072.00	0.00	0.00	1100.00	30.02	30.02	154.95	330.16	297.31	10.05	
1200.00	1172.00	0.00	0.00	1200.00	33.06	33.06	154.95	330.16	294.06	9.14	
1300.00	1272.00	0.00	0.00	1300.00	36.10	36.10	154.95	330.16	290.81	8.39	
1400.00	1372.00	0.00	0.00	1400.00	39.14	39.14	154.95	330.16	287.56	7.75	
1500.00	1472.00	0.00	0.00	1500.00	42.17	42.17	154.95	330.16	284.31	7.20	
1600.00	1572.00	0.00	0.00	1600.00	45.21	45.21	154.95	330.16	281.06	6.72	
1700.00	1672.00	0.00	0.00	1700.00	48.25	48.25	154.95	330.16	277.81	6.31	
1800.00	1771.98	0.00	0.00	1799.98	51.28	51.28	62.48	329.35	273.74	5.92	
1900.00	1871.84	0.00	0.00	1899.84	54.31	54.31	63.33	326.97	268.07	5.55	
2000.00	1971.45	0.00	0.00	1999.45	57.34	57.34	64.78	323.14	260.94	5.19	
2100.00	2070.70	0.00	0.00	2098.70	60.35	60.35	66.84	318.12	252.63	4.86	

5D Anti-Collision Report

Secondary Well: Goetzel 2-29 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
2200.00	2169.47	0.00	0.00	2197.47	63.35	63.35	69.57	312.24	243.54	4.55	
2300.00	2267.62	0.00	0.00	2295.62	66.33	66.33	72.98	306.01	234.22	4.26	
2400.00	2365.06	0.00	0.00	2393.06	69.29	69.29	77.10	300.06	224.80	3.99	
2500.00	2461.64	0.00	0.00	2489.64	72.23	72.23	81.94	295.20	216.81	3.77	
2600.00	2557.42	0.00	0.00	2585.42	75.13	75.13	87.32	292.39	210.46	3.57	
2700.00	2653.10	0.00	0.00	2681.10	78.04	78.04	92.77	292.42	207.33	3.44	
2800.00	2748.78	0.00	0.00	2776.78	80.95	80.95	98.18	295.32	206.67	3.33	
2900.00	2844.45	0.00	0.00	2872.45	83.85	83.85	103.44	301.02	209.10	3.27	
3000.00	2940.13	0.00	0.00	2968.13	86.76	86.76	108.48	309.36	214.03	3.25	
3100.00	3035.81	0.00	0.00	3063.81	89.66	89.66	113.25	320.13	221.54	3.25	
3200.00	3131.49	0.00	0.00	3159.49	92.57	92.57	117.69	333.10	231.13	3.27	
3300.00	3227.16	0.00	0.00	3255.16	95.47	95.47	121.80	348.02	243.05	3.32	
3400.00	3322.84	0.00	0.00	3350.84	98.38	98.38	125.58	364.66	256.17	3.36	
3500.00	3418.52	0.00	0.00	3446.52	101.29	101.29	129.03	382.78	271.21	3.43	
3600.00	3514.20	0.00	0.00	3542.20	104.19	104.19	132.18	402.20	287.53	3.51	
3700.00	3609.87	0.00	0.00	3637.87	107.10	107.10	135.04	422.72	304.69	3.58	
3800.00	3705.55	0.00	0.00	3733.55	110.00	110.00	137.64	444.20	323.02	3.67	
3900.00	3801.23	0.00	0.00	3829.23	112.91	112.91	140.00	466.51	342.38	3.76	
4000.00	3896.91	0.00	0.00	3924.91	115.81	115.81	142.16	489.53	362.23	3.85	
4100.00	3992.58	0.00	0.00	4020.58	118.72	118.72	144.12	513.16	382.53	3.93	
4200.00	4088.26	0.00	0.00	4116.26	121.62	121.62	145.91	537.33	403.50	4.01	
4300.00	4183.94	0.00	0.00	4211.94	124.53	124.53	147.55	561.97	425.05	4.10	
4400.00	4279.61	0.00	0.00	4307.61	127.44	127.44	149.06	587.01	447.06	4.19	
4500.00	4375.29	0.00	0.00	4403.29	130.34	130.34	150.44	612.41	469.49	4.29	
4600.00	4470.97	0.00	0.00	4498.97	133.25	133.25	151.72	638.13	492.10	4.37	
4700.00	4566.65	0.00	0.00	4594.65	136.15	136.15	152.90	664.12	514.77	4.45	
4800.00	4662.32	0.00	0.00	4690.32	139.06	139.06	153.99	690.36	537.74	4.52	
4900.00	4758.00	0.00	0.00	4786.00	141.96	141.96	155.00	716.82	560.98	4.60	
5000.00	4853.68	0.00	0.00	4881.68	144.87	144.87	155.94	743.47	584.47	4.68	
5100.00	4949.36	0.00	0.00	4977.36	147.77	147.77	156.82	770.30	608.16	4.75	
5200.00	5045.03	0.00	0.00	5073.03	150.68	150.68	157.64	797.29	632.05	4.82	
5300.00	5140.71	0.00	0.00	5168.71	153.59	153.59	158.40	824.42	656.07	4.90	
5400.00	5236.39	0.00	0.00	5264.39	156.49	156.49	159.12	851.68	680.24	4.97	
5500.00	5332.06	0.00	0.00	5360.06	159.40	159.40	159.79	879.06	704.55	5.04	
5600.00	5427.74	0.00	0.00	5455.74	162.30	162.30	160.42	906.54	728.98	5.11	
5700.00	5523.42	0.00	0.00	5551.42	165.21	165.21	161.02	934.12	753.52	5.17	
5800.00	5619.10	0.00	0.00	5647.10	168.11	168.11	161.58	961.79	778.12	5.24	
5900.00	5714.77	0.00	0.00	5742.77	171.02	171.02	162.11	989.54	802.59	5.29	
6000.00	5810.45	0.00	0.00	5838.45	173.93	173.93	162.61	1017.36	827.15	5.35	
6100.00	5906.13	0.00	0.00	5934.13	176.83	176.83	163.08	1045.26	851.79	5.40	
6200.00	6001.81	0.00	0.00	6029.81	179.74	179.74	163.53	1073.21	876.51	5.46	
6300.00	6097.82	0.00	0.00	6125.82	182.65	182.65	162.57	1100.05	900.13	5.50	
6400.00	6196.33	0.00	0.00	6224.33	185.64	185.64	152.21	1115.72	912.60	5.49	
6500.00	6296.17	0.00	0.00	6324.17	188.68	188.68	26.88	1117.70	911.40	5.42	
6600.00	6395.38	0.00	0.00	6423.38	191.69	191.69	1.03	1105.92	896.51	5.28	
6700.00	6492.04	0.00	0.00	6520.04	194.62	194.62	356.47	1080.62	868.23	5.09	
6800.00	6584.27	0.00	0.00	6612.27	197.43	197.43	354.09	1042.29	827.08	4.84	
6900.00	6670.26	0.00	0.00	6698.26	200.04	200.04	352.00	991.69	773.91	4.55	
7000.00	6748.35	0.00	0.00	6776.35	202.41	202.41	349.55	929.84	709.76	4.23	
7100.00	6817.01	0.00	0.00	6845.01	204.49	204.49	346.16	858.02	635.98	3.86	
7200.00	6874.92	0.00	0.00	6902.92	206.25	206.25	340.90	777.72	554.12	3.48	
7300.00	6920.94	0.00	0.00	6948.94	207.65	207.65	332.10	690.67	465.37	3.07	
7400.00	6954.17	0.00	0.00	6982.17	208.66	208.66	316.74	598.83	371.94	2.64	
7500.00	6973.98	0.00	0.00	7001.98	209.26	209.26	292.87	504.46	276.31	2.21	SF(Lo)
7600.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	410.23	181.70	1.80	SF(Lo)
7700.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	319.22	88.29	1.38	SF(Med)
7800.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	235.63	1.51	1.01	SF(Med)
7900.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	170.69	-68.93	0.71	SF(Hi)

5D Anti-Collision Report

Secondary Well: Goetzel 2-29 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
8000.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	150.84	-93.24	0.62	SF(Hi)
8100.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	190.71	-48.80	0.80	SF(Hi)
8200.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	264.55	29.86	1.13	SF(Med)
8300.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	351.57	119.74	1.52	SF(Lo)
8400.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	444.09	214.15	1.93	SF(Lo)
8500.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	539.29	310.12	2.35	SF(Lo)
8600.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	635.97	407.11	2.78	
8700.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	733.53	505.13	3.21	
8800.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	831.68	603.78	3.65	
8900.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	930.22	702.80	4.09	
9000.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	1029.04	802.04	4.53	
9100.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	1128.07	900.95	4.97	
9200.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	1227.25	1000.04	5.40	
9300.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	1326.56	1099.30	5.84	
9400.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	1425.97	1198.67	6.27	
9500.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	1525.45	1298.14	6.71	
9600.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	1625.00	1397.69	7.15	
9700.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	1724.60	1497.29	7.59	
9800.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	1824.24	1596.95	8.03	
9900.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	1923.92	1696.62	8.46	
10000.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	2023.63	1796.31	8.90	
10100.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	2123.37	1896.03	9.34	
10200.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	2223.13	1995.78	9.78	
10300.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	2322.91	2095.55	10.22	
10400.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	2422.72	2195.34	10.66	
10500.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	2522.53	2295.15	11.09	
10600.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	2622.36	2394.97	11.53	
10700.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	2722.20	2494.81	11.97	
10800.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	2822.06	2594.65	12.41	
10900.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	2921.92	2694.51	12.85	
11000.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	3021.80	2794.37	13.29	
11100.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	3121.68	2894.24	13.73	
11200.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	3221.56	2994.12	14.16	
11300.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	3321.46	3094.01	14.60	
11400.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	3421.36	3193.90	15.04	
11500.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	3521.27	3293.79	15.48	
11600.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	3621.18	3393.69	15.92	
11700.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	3721.10	3493.59	16.36	
11800.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	3821.02	3593.50	16.79	
11900.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	3920.94	3693.41	17.23	
12000.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	4020.87	3793.32	17.67	
12100.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	4120.80	3893.23	18.11	
12200.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	4220.74	3993.15	18.55	
12300.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	4320.68	4093.07	18.98	
12400.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	4420.62	4192.99	19.42	
12500.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	4520.56	4292.91	19.86	
12600.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	4620.51	4392.83	20.29	
12700.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	4720.46	4492.75	20.73	
12800.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	4820.41	4592.67	21.17	
12900.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	4920.36	4692.59	21.60	
13000.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	5020.32	4792.51	22.04	
13100.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	5120.27	4892.43	22.47	
13200.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	5220.23	4992.35	22.91	
13300.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	5320.19	5092.27	23.34	
13400.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	5420.15	5192.19	23.78	
13500.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	5520.11	5292.12	24.21	
13600.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	5620.08	5392.04	24.65	
13700.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	5720.04	5491.97	25.08	

5D Anti-Collision Report

Secondary Well: Goetzel 2-29 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
13800.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	5820.01	5591.89	25.51	
13900.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	5919.98	5691.82	25.95	
14000.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	6019.95	5791.75	26.38	
14100.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	6119.91	5891.67	26.81	
14200.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	6219.89	5991.60	27.25	
14300.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	6319.86	6091.53	27.68	
14400.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	6419.83	6191.46	28.11	
14500.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	6519.80	6291.39	28.54	
14600.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	6619.78	6391.31	28.98	
14700.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	6719.75	6491.24	29.41	
14800.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	6819.73	6591.17	29.84	
14900.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	6919.70	6691.10	30.27	
15000.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	7019.68	6791.03	30.70	
15100.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	7119.66	6890.96	31.13	
15200.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	7219.64	6990.89	31.56	
15300.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	7319.61	7090.82	31.99	
15400.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	7419.59	7190.75	32.42	
15500.00	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	7519.57	7290.67	32.85	
15501.26	6980.00	0.00	0.00	7008.00	209.44	209.44	270.00	7520.83	7291.93	32.86	

Secondary Well: Tollgate Farms 29-12G6 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	27.00	0.00	0.00	261.22	1534.40	1533.74	2323.45	
100.00	73.00	0.00	0.00	100.00	1.11	1.11	261.22	1534.16	1532.28	816.92	
200.00	173.00	0.00	0.00	200.00	2.72	2.72	261.22	1534.16	1530.45	412.88	
300.00	273.00	0.00	0.00	300.00	5.76	5.76	261.22	1534.16	1527.18	219.90	
400.00	373.00	0.00	0.00	400.00	8.80	8.80	261.22	1534.16	1524.10	152.41	
500.00	473.00	0.00	0.00	500.00	11.83	11.83	261.22	1534.16	1520.83	115.12	
600.00	573.00	0.00	0.00	600.00	14.87	14.87	261.22	1534.16	1517.57	92.49	
700.00	673.00	0.00	0.00	700.00	17.91	17.91	261.22	1534.16	1514.31	77.29	
800.00	773.00	0.00	0.00	800.00	20.94	20.94	261.22	1534.16	1511.05	66.39	
900.00	873.00	0.00	0.00	900.00	23.98	23.98	261.22	1534.16	1507.79	58.18	
1000.00	973.00	0.00	0.00	1000.00	27.02	27.02	261.22	1534.16	1504.53	51.78	
1100.00	1073.00	0.00	0.00	1100.00	30.05	30.05	261.22	1534.16	1501.27	46.64	
1200.00	1173.00	0.00	0.00	1200.00	33.09	33.09	261.22	1534.16	1498.01	42.44	
1300.00	1273.00	0.00	0.00	1300.00	36.13	36.13	261.22	1534.16	1494.75	38.92	
1400.00	1373.00	0.00	0.00	1400.00	39.17	39.17	261.22	1534.16	1491.49	35.95	
1500.00	1473.00	0.00	0.00	1500.00	42.20	42.20	261.22	1534.16	1488.23	33.40	
1600.00	1573.00	0.00	0.00	1600.00	45.24	45.24	261.22	1534.16	1484.96	31.18	
1700.00	1673.00	0.00	0.00	1700.00	48.28	48.28	261.22	1534.16	1481.70	29.25	
1800.00	1772.98	0.00	0.00	1799.98	51.31	51.31	168.48	1535.87	1480.18	27.58	
1900.00	1872.84	0.00	0.00	1899.84	54.34	54.34	168.50	1541.00	1482.08	26.15	
2000.00	1972.45	0.00	0.00	1999.45	57.37	57.37	168.53	1549.54	1487.40	24.94	
2100.00	2071.70	0.00	0.00	2098.70	60.38	60.38	168.57	1561.49	1496.13	23.89	
2200.00	2170.47	0.00	0.00	2197.47	63.38	63.38	168.62	1576.83	1508.26	23.00	
2300.00	2268.62	0.00	0.00	2295.62	66.36	66.36	168.68	1595.55	1523.78	22.23	
2400.00	2366.06	0.00	0.00	2393.06	69.32	69.32	168.75	1617.63	1542.68	21.58	
2500.00	2462.64	0.00	0.00	2489.64	72.26	72.26	168.82	1643.05	1564.94	21.04	
2600.00	2558.42	0.00	0.00	2585.42	75.17	75.17	168.96	1671.29	1590.05	20.57	
2700.00	2654.10	0.00	0.00	2681.10	78.07	78.07	169.15	1699.89	1615.52	20.15	
2800.00	2749.78	0.00	0.00	2776.78	80.98	80.98	169.33	1728.51	1641.00	19.75	
2900.00	2845.45	0.00	0.00	2872.45	83.88	83.88	169.51	1757.14	1666.49	19.38	
3000.00	2941.13	0.00	0.00	2968.13	86.79	86.79	169.68	1785.78	1691.99	19.04	
3100.00	3036.81	0.00	0.00	3063.81	89.69	89.69	169.84	1814.44	1717.51	18.72	
3200.00	3132.49	0.00	0.00	3159.49	92.60	92.60	170.00	1843.11	1743.03	18.42	
3300.00	3228.16	0.00	0.00	3255.16	95.50	95.50	170.16	1871.80	1768.57	18.13	
3400.00	3323.84	0.00	0.00	3350.84	98.41	98.41	170.31	1900.49	1794.12	17.87	

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
3500.00	3419.52	0.00	0.00	3446.52	101.32	101.32	170.45	1929.20	1819.68	17.61	
3600.00	3515.20	0.00	0.00	3542.20	104.22	104.22	170.59	1957.92	1845.25	17.38	
3700.00	3610.87	0.00	0.00	3637.87	107.13	107.13	170.73	1986.65	1870.82	17.15	
3800.00	3706.55	0.00	0.00	3733.55	110.03	110.03	170.86	2015.39	1896.41	16.94	
3900.00	3802.23	0.00	0.00	3829.23	112.94	112.94	170.99	2044.14	1922.01	16.74	
4000.00	3897.91	0.00	0.00	3924.91	115.84	115.84	171.12	2072.90	1947.61	16.54	
4100.00	3993.58	0.00	0.00	4020.58	118.75	118.75	171.24	2101.67	1973.22	16.36	
4200.00	4089.26	0.00	0.00	4116.26	121.65	121.65	171.36	2130.44	1998.84	16.19	
4300.00	4184.94	0.00	0.00	4211.94	124.56	124.56	171.47	2159.23	2024.46	16.02	
4400.00	4280.61	0.00	0.00	4307.61	127.47	127.47	171.59	2188.02	2050.10	15.86	
4500.00	4376.29	0.00	0.00	4403.29	130.37	130.37	171.70	2216.82	2075.74	15.71	
4600.00	4471.97	0.00	0.00	4498.97	133.28	133.28	171.80	2245.63	2101.39	15.57	
4700.00	4567.65	0.00	0.00	4594.65	136.18	136.18	171.91	2274.44	2127.04	15.43	
4800.00	4663.32	0.00	0.00	4690.32	139.09	139.09	172.01	2303.27	2152.67	15.29	
4900.00	4759.00	0.00	0.00	4786.00	141.99	141.99	172.11	2332.09	2178.29	15.16	
5000.00	4854.68	0.00	0.00	4881.68	144.90	144.90	172.21	2360.93	2203.93	15.04	
5100.00	4950.36	0.00	0.00	4977.36	147.81	147.81	172.30	2389.77	2229.57	14.92	
5200.00	5046.03	0.00	0.00	5073.03	150.71	150.71	172.39	2418.61	2255.21	14.80	
5300.00	5141.71	0.00	0.00	5168.71	153.62	153.62	172.48	2447.47	2280.86	14.69	
5400.00	5237.39	0.00	0.00	5264.39	156.52	156.52	172.57	2476.32	2306.51	14.58	
5500.00	5333.06	0.00	0.00	5360.06	159.43	159.43	172.66	2505.19	2332.17	14.48	
5600.00	5428.74	0.00	0.00	5455.74	162.33	162.33	172.74	2534.05	2357.84	14.38	
5700.00	5524.42	0.00	0.00	5551.42	165.24	165.24	172.82	2562.93	2383.51	14.28	
5800.00	5620.10	0.00	0.00	5647.10	168.14	168.14	172.90	2591.80	2409.18	14.19	
5900.00	5715.77	0.00	0.00	5742.77	171.05	171.05	172.98	2620.68	2434.86	14.10	
6000.00	5811.45	0.00	0.00	5838.45	173.96	173.96	173.06	2649.57	2460.54	14.02	
6100.00	5907.13	0.00	0.00	5934.13	176.86	176.86	173.13	2678.46	2486.23	13.93	
6200.00	6002.81	0.00	0.00	6029.81	179.77	179.77	173.21	2707.36	2511.92	13.85	
6300.00	6098.82	0.00	0.00	6125.82	182.68	182.68	171.75	2735.06	2536.42	13.77	
6400.00	6197.33	0.00	0.00	6224.33	185.67	185.67	160.97	2751.43	2549.58	13.63	
6500.00	6297.17	0.00	0.00	6324.17	188.71	188.71	35.49	2753.92	2548.88	13.43	
6600.00	6396.38	0.00	0.00	6423.38	191.72	191.72	9.78	2742.49	2534.32	13.17	
6700.00	6493.04	0.00	0.00	6520.04	194.65	194.65	5.66	2717.36	2506.20	12.87	
6800.00	6585.27	0.00	0.00	6612.27	197.46	197.46	4.07	2679.02	2465.04	12.52	
6900.00	6671.26	0.00	0.00	6698.26	200.07	200.07	3.27	2628.21	2411.64	12.14	
7000.00	6749.35	0.00	0.00	6776.35	202.44	202.44	2.83	2565.93	2347.03	11.72	
7100.00	6818.01	0.00	0.00	6845.01	204.52	204.52	2.59	2493.38	2272.45	11.29	
7200.00	6875.92	0.00	0.00	6902.92	206.28	206.28	2.51	2411.98	2189.35	10.83	
7300.00	6921.94	0.00	0.00	6948.94	207.68	207.68	2.57	2323.31	2099.34	10.37	
7400.00	6955.17	0.00	0.00	6982.17	208.69	208.69	2.90	2229.09	2004.16	9.91	
7500.00	6974.98	0.00	0.00	7001.98	209.29	209.29	4.11	2131.16	1905.66	9.45	
7600.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	2031.42	1805.77	9.00	
7700.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	1931.42	1705.81	8.56	
7800.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	1831.42	1605.81	8.12	
7900.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	1731.43	1505.81	7.67	
8000.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	1631.43	1405.79	7.23	
8100.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	1531.43	1305.78	6.79	
8200.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	1431.43	1205.80	6.34	
8300.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	1331.44	1105.77	5.90	
8400.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	1231.44	1005.73	5.46	
8500.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	1131.45	905.72	5.01	
8600.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	1031.45	805.73	4.57	
8700.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	931.46	705.76	4.13	
8800.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	831.46	605.71	3.68	
8900.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	731.47	505.67	3.24	
9000.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	631.49	405.66	2.80	
9100.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	531.51	305.62	2.35	SF(Lo)
9200.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	431.53	205.57	1.91	SF(Lo)

5D Anti-Collision Report

Secondary Well: Tollgate Farms 29-12G6 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
9300.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	331.58	105.50	1.47	SF(Med)
9400.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	231.66	5.37	1.02	SF(Med)
9500.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	131.86	-95.12	0.58	SF(Hi)
9600.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	33.28	-204.40	0.14	SF(Hi); CC (Lo)
9700.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	69.49	-159.84	0.30	SF(Hi)
9800.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	168.97	-57.44	0.75	SF(Hi)
9900.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	268.84	43.10	1.19	SF(Med)
10000.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	368.77	143.32	1.64	SF(Lo)
10100.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	468.74	243.23	2.08	SF(Lo)
10200.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	568.72	343.16	2.52	
10300.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	668.70	443.11	2.96	
10400.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	768.69	543.07	3.41	
10500.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	868.68	643.03	3.85	
10600.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	968.67	742.99	4.29	
10700.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	1068.67	842.96	4.73	
10800.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	1168.66	942.92	5.18	
10900.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	1268.66	1042.87	5.62	
11000.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	1368.65	1142.83	6.06	
11100.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	1468.65	1242.79	6.50	
11200.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	1568.65	1342.75	6.94	
11300.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	1668.65	1442.71	7.39	
11400.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	1768.64	1542.67	7.83	
11500.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	1868.64	1642.63	8.27	
11600.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	1968.64	1742.60	8.71	
11700.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	2068.64	1842.56	9.15	
11800.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	2168.64	1942.52	9.59	
11900.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	2268.64	2042.49	10.03	
12000.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	2368.63	2142.45	10.47	
12100.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	2468.63	2242.41	10.91	
12200.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	2568.63	2342.37	11.35	
12300.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	2668.63	2442.34	11.79	
12400.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	2768.63	2542.30	12.23	
12500.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	2868.63	2642.26	12.67	
12600.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	2968.63	2742.22	13.11	
12700.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	3068.63	2842.18	13.55	
12800.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	3168.63	2942.14	13.99	
12900.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	3268.63	3042.10	14.43	
13000.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	3368.63	3142.06	14.87	
13100.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	3468.63	3242.02	15.31	
13200.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	3568.63	3341.98	15.75	
13300.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	3668.63	3441.94	16.18	
13400.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	3768.62	3541.89	16.62	
13500.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	3868.62	3641.85	17.06	
13600.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	3968.62	3741.81	17.50	
13700.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	4068.62	3841.76	17.93	
13800.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	4168.62	3941.72	18.37	
13900.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	4268.62	4041.67	18.81	
14000.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	4368.62	4141.63	19.25	
14100.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	4468.62	4241.58	19.68	
14200.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	4568.62	4341.53	20.12	
14300.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	4668.62	4441.49	20.55	
14400.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	4768.62	4541.44	20.99	
14500.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	4868.62	4641.39	21.43	
14600.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	4968.62	4741.34	21.86	
14700.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	5068.62	4841.29	22.30	
14800.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	5168.62	4941.24	22.73	
14900.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	5268.62	5041.19	23.17	

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
15000.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	5368.62	5141.14	23.60	
15100.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	5468.62	5241.09	24.03	
15200.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	5568.62	5341.04	24.47	
15300.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	5668.62	5440.99	24.90	
15400.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	5768.62	5540.93	25.34	
15500.00	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	5868.62	5640.88	25.77	
15501.26	6981.00	0.00	0.00	7008.00	209.47	209.47	90.00	5869.87	5642.13	25.77	
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	266.27	5653.30	5652.58	7764.48	
100.00	83.00	0.00	0.00	100.00	1.26	1.26	266.27	5653.28	5651.18	2698.75	
200.00	183.00	0.00	0.00	200.00	3.03	3.03	266.27	5653.28	5649.20	1385.36	
300.00	283.00	0.00	0.00	300.00	6.06	6.06	266.27	5653.28	5645.94	770.68	
400.00	383.00	0.00	0.00	400.00	9.10	9.10	266.27	5653.28	5642.86	542.63	
500.00	483.00	0.00	0.00	500.00	12.14	12.14	266.27	5653.28	5639.61	413.46	
600.00	583.00	0.00	0.00	600.00	15.17	15.17	266.27	5653.28	5636.35	333.96	
700.00	683.00	0.00	0.00	700.00	18.21	18.21	266.27	5653.28	5633.10	280.11	
800.00	783.00	0.00	0.00	800.00	21.25	21.25	266.27	5653.28	5629.84	241.21	
900.00	883.00	0.00	0.00	900.00	24.28	24.28	266.27	5653.28	5626.59	211.80	
1000.00	983.00	0.00	0.00	1000.00	27.32	27.32	266.27	5653.28	5623.33	188.78	
1100.00	1083.00	0.00	0.00	1100.00	30.36	30.36	266.27	5653.28	5620.08	170.27	
1200.00	1183.00	0.00	0.00	1200.00	33.40	33.40	266.27	5653.28	5616.82	155.07	
1300.00	1283.00	0.00	0.00	1300.00	36.43	36.43	266.27	5653.28	5613.57	142.36	
1400.00	1383.00	0.00	0.00	1400.00	39.47	39.47	266.27	5653.28	5610.31	131.58	
1500.00	1483.00	0.00	0.00	1500.00	42.51	42.51	266.27	5653.28	5607.06	122.31	
1600.00	1583.00	0.00	0.00	1600.00	45.54	45.54	266.27	5653.28	5603.80	114.27	
1700.00	1683.00	0.00	0.00	1700.00	48.58	48.58	266.27	5653.28	5600.55	107.21	
1800.00	1782.98	0.00	0.00	1799.98	51.62	51.62	173.51	5655.01	5599.04	101.03	
1900.00	1882.84	0.00	0.00	1899.84	54.65	54.65	173.51	5660.21	5601.01	95.61	
2000.00	1982.45	0.00	0.00	1999.45	57.67	57.67	173.50	5668.87	5606.45	90.81	
2100.00	2081.70	0.00	0.00	2098.70	60.69	60.69	173.48	5680.98	5615.34	86.55	
2200.00	2180.47	0.00	0.00	2197.47	63.69	63.69	173.47	5696.53	5627.68	82.75	
2300.00	2278.62	0.00	0.00	2295.62	66.67	66.67	173.44	5715.49	5643.45	79.34	
2400.00	2376.06	0.00	0.00	2393.06	69.63	69.63	173.42	5737.84	5662.62	76.29	
2500.00	2472.64	0.00	0.00	2489.64	72.56	72.56	173.39	5763.56	5685.19	73.54	
2600.00	2568.42	0.00	0.00	2585.42	75.47	75.47	173.39	5792.12	5710.61	71.06	
2700.00	2664.10	0.00	0.00	2681.10	78.37	78.37	173.42	5821.03	5736.38	68.77	
2800.00	2759.78	0.00	0.00	2776.78	81.28	81.28	173.45	5849.94	5762.15	66.63	
2900.00	2855.45	0.00	0.00	2872.45	84.19	84.19	173.49	5878.85	5787.91	64.65	
3000.00	2951.13	0.00	0.00	2968.13	87.09	87.09	173.52	5907.76	5813.67	62.79	
3100.00	3046.81	0.00	0.00	3063.81	90.00	90.00	173.55	5936.68	5839.43	61.05	
3200.00	3142.49	0.00	0.00	3159.49	92.90	92.90	173.58	5965.59	5865.19	59.42	
3300.00	3238.16	0.00	0.00	3255.16	95.81	95.81	173.61	5994.51	5890.95	57.89	
3400.00	3333.84	0.00	0.00	3350.84	98.71	98.71	173.64	6023.43	5916.70	56.44	
3500.00	3429.52	0.00	0.00	3446.52	101.62	101.62	173.67	6052.35	5942.46	55.08	
3600.00	3525.20	0.00	0.00	3542.20	104.52	104.52	173.70	6081.27	5968.21	53.79	
3700.00	3620.87	0.00	0.00	3637.87	107.43	107.43	173.73	6110.19	5993.96	52.57	
3800.00	3716.55	0.00	0.00	3733.55	110.34	110.34	173.76	6139.12	6019.72	51.42	
3900.00	3812.23	0.00	0.00	3829.23	113.24	113.24	173.79	6168.05	6045.47	50.32	
4000.00	3907.91	0.00	0.00	3924.91	116.15	116.15	173.82	6196.97	6071.22	49.28	
4100.00	4003.58	0.00	0.00	4020.58	119.05	119.05	173.85	6225.90	6096.97	48.29	
4200.00	4099.26	0.00	0.00	4116.26	121.96	121.96	173.88	6254.83	6122.71	47.34	
4300.00	4194.94	0.00	0.00	4211.94	124.86	124.86	173.91	6283.77	6148.46	46.44	
4400.00	4290.61	0.00	0.00	4307.61	127.77	127.77	173.93	6312.70	6174.21	45.58	
4500.00	4386.29	0.00	0.00	4403.29	130.68	130.68	173.96	6341.63	6199.96	44.76	
4600.00	4481.97	0.00	0.00	4498.97	133.58	133.58	173.99	6370.57	6225.71	43.98	

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
4700.00	4577.65	0.00	0.00	4594.65	136.49	136.49	174.02	6399.51	6251.46	43.22	
4800.00	4673.32	0.00	0.00	4690.32	139.39	139.39	174.04	6428.45	6277.21	42.50	
4900.00	4769.00	0.00	0.00	4786.00	142.30	142.30	174.07	6457.39	6302.96	41.81	
5000.00	4864.68	0.00	0.00	4881.68	145.20	145.20	174.10	6486.33	6328.71	41.15	
5100.00	4960.36	0.00	0.00	4977.36	148.11	148.11	174.12	6515.27	6354.46	40.51	
5200.00	5056.03	0.00	0.00	5073.03	151.01	151.01	174.15	6544.22	6380.21	39.90	
5300.00	5151.71	0.00	0.00	5168.71	153.92	153.92	174.18	6573.16	6405.97	39.31	
5400.00	5247.39	0.00	0.00	5264.39	156.83	156.83	174.20	6602.11	6431.72	38.75	
5500.00	5343.06	0.00	0.00	5360.06	159.73	159.73	174.23	6631.06	6457.47	38.20	
5600.00	5438.74	0.00	0.00	5455.74	162.64	162.64	174.25	6660.01	6483.23	37.67	
5700.00	5534.42	0.00	0.00	5551.42	165.54	165.54	174.28	6688.96	6508.98	37.17	
5800.00	5630.10	0.00	0.00	5647.10	168.45	168.45	174.30	6717.91	6534.74	36.68	
5900.00	5725.77	0.00	0.00	5742.77	171.35	171.35	174.33	6746.86	6560.50	36.20	
6000.00	5821.45	0.00	0.00	5838.45	174.26	174.26	174.35	6775.81	6586.26	35.75	
6100.00	5917.13	0.00	0.00	5934.13	177.16	177.16	174.37	6804.77	6612.01	35.30	
6200.00	6012.81	0.00	0.00	6029.81	180.07	180.07	174.40	6833.72	6637.77	34.87	
6300.00	6108.82	0.00	0.00	6125.82	182.99	182.99	172.88	6861.49	6662.34	34.45	
6400.00	6207.33	0.00	0.00	6224.33	185.98	185.98	162.02	6877.91	6675.57	33.99	
6500.00	6307.17	0.00	0.00	6324.17	189.01	189.01	36.50	6880.46	6674.92	33.48	
6600.00	6406.38	0.00	0.00	6423.38	192.02	192.02	10.77	6869.09	6660.43	32.92	
6700.00	6503.04	0.00	0.00	6520.04	194.96	194.96	6.65	6844.01	6632.36	32.34	
6800.00	6595.27	0.00	0.00	6612.27	197.76	197.76	5.08	6805.73	6591.26	31.73	
6900.00	6681.26	0.00	0.00	6698.26	200.37	200.37	4.33	6754.97	6537.91	31.12	
7000.00	6759.35	0.00	0.00	6776.35	202.74	202.74	3.98	6692.73	6473.35	30.51	
7100.00	6828.01	0.00	0.00	6845.01	204.83	204.83	3.89	6620.22	6398.82	29.90	
7200.00	6885.92	0.00	0.00	6902.92	206.59	206.59	4.05	6538.86	6315.76	29.31	
7300.00	6931.94	0.00	0.00	6948.94	207.98	207.98	4.55	6450.22	6225.78	28.74	
7400.00	6965.17	0.00	0.00	6982.17	208.99	208.99	5.79	6356.03	6130.64	28.20	
7500.00	6984.98	0.00	0.00	7001.98	209.59	209.59	9.95	6258.12	6032.17	27.70	
7600.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	6158.41	5932.31	27.24	
7700.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	6058.42	5832.37	26.80	
7800.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	5958.44	5732.38	26.36	
7900.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	5858.46	5632.35	25.91	
8000.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	5758.48	5532.34	25.46	
8100.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	5658.50	5432.36	25.02	
8200.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	5558.52	5332.40	24.58	
8300.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	5458.55	5232.39	24.14	
8400.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	5358.57	5132.38	23.69	
8500.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	5258.59	5032.39	23.25	
8600.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	5158.62	4932.43	22.81	
8700.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	5058.64	4832.48	22.37	
8800.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	4958.67	4732.46	21.92	
8900.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	4858.70	4632.45	21.47	
9000.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	4758.73	4532.44	21.03	
9100.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	4658.76	4432.44	20.59	
9200.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	4558.79	4332.46	20.14	
9300.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	4458.82	4232.48	19.70	
9400.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	4358.86	4132.49	19.26	
9500.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	4258.89	4032.47	18.81	
9600.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	4158.93	3932.46	18.36	
9700.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	4058.97	3832.46	17.92	
9800.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	3959.01	3732.46	17.47	
9900.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	3859.06	3632.46	17.03	
10000.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	3759.10	3532.45	16.59	
10100.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	3659.15	3432.44	16.14	
10200.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	3559.20	3332.43	15.69	
10300.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	3459.26	3232.42	15.25	
10400.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	3359.32	3132.41	14.81	

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
10500.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	3259.38	3032.41	14.36	
10600.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	3159.44	2932.40	13.92	
10700.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	3059.51	2832.40	13.47	
10800.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	2959.59	2732.37	13.03	
10900.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	2859.67	2632.34	12.58	
11000.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	2759.75	2532.31	12.13	
11100.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	2659.84	2432.28	11.69	
11200.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	2559.94	2332.25	11.24	
11300.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	2460.05	2232.22	10.80	
11400.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	2360.17	2132.17	10.35	
11500.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	2260.29	2032.10	9.91	
11600.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	2160.43	1932.02	9.46	
11700.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	2060.58	1831.95	9.01	
11800.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	1960.75	1731.87	8.57	
11900.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	1860.93	1631.76	8.12	
12000.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	1761.14	1531.61	7.67	
12100.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	1661.37	1431.46	7.23	
12200.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	1561.63	1331.30	6.78	
12300.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	1461.92	1231.06	6.33	
12400.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	1362.26	1130.70	5.88	
12500.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	1262.65	1030.29	5.43	
12600.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	1163.11	929.83	4.99	
12700.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	1063.66	829.31	4.54	
12800.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	964.32	728.54	4.09	
12900.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	865.13	627.48	3.64	
13000.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	766.15	525.96	3.19	
13100.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	667.47	423.61	2.74	
13200.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	569.26	320.11	2.28	SF(Lo)
13300.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	471.80	215.45	1.84	SF(Lo)
13400.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	375.67	109.25	1.41	SF(Med)
13500.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	282.25	-3.02	0.99	SF(Hi)
13600.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	195.46	-122.40	0.61	SF(Hi)
13700.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	129.39	-244.91	0.35	SF(Hi)
13800.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	123.61	-259.93	0.32	SF(Hi)
13900.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	183.89	-144.42	0.56	SF(Hi)
14000.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	268.99	-23.98	0.92	SF(Hi)
14100.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	361.79	88.37	1.32	SF(Med)
14200.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	457.63	195.77	1.75	SF(Lo)
14300.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	554.95	301.11	2.19	SF(Lo)
14400.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	653.07	404.23	2.62	
14500.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	751.69	506.40	3.06	
14600.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	850.63	607.89	3.50	
14700.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	949.80	709.10	3.95	
14800.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	1049.12	810.12	4.39	
14900.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	1148.56	910.94	4.83	
15000.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	1248.09	1011.52	5.28	
15100.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	1347.69	1112.03	5.72	
15200.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	1447.34	1212.46	6.16	
15300.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	1547.04	1312.79	6.60	
15400.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	1646.78	1413.08	7.05	
15500.00	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	1746.54	1513.33	7.49	
15501.26	6991.00	0.00	0.00	7008.00	209.78	209.78	90.00	1747.80	1514.59	7.49	
Secondary Well: Etter 30-32 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	17.00	0.00	0.00	262.89	7072.71	7071.98	9713.91	
100.00	83.00	0.00	0.00	100.00	1.26	1.26	262.89	7072.69	7070.59	3374.46	

5D Anti-Collision Report

Secondary Well: Etter 30-32 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
200.00	183.00	0.00	0.00	200.00	3.03	3.03	262.89	7072.69	7068.61	1731.97	
300.00	283.00	0.00	0.00	300.00	6.06	6.06	262.89	7072.69	7065.35	963.44	
400.00	383.00	0.00	0.00	400.00	9.10	9.10	262.89	7072.69	7062.26	678.32	
500.00	483.00	0.00	0.00	500.00	12.14	12.14	262.89	7072.69	7059.01	516.85	
600.00	583.00	0.00	0.00	600.00	15.17	15.17	262.89	7072.69	7055.75	417.47	
700.00	683.00	0.00	0.00	700.00	18.21	18.21	262.89	7072.69	7052.49	350.15	
800.00	783.00	0.00	0.00	800.00	21.25	21.25	262.89	7072.69	7049.23	301.52	
900.00	883.00	0.00	0.00	900.00	24.28	24.28	262.89	7072.69	7045.98	264.75	
1000.00	983.00	0.00	0.00	1000.00	27.32	27.32	262.89	7072.69	7042.72	235.98	
1100.00	1083.00	0.00	0.00	1100.00	30.36	30.36	262.89	7072.69	7039.46	212.84	
1200.00	1183.00	0.00	0.00	1200.00	33.40	33.40	262.89	7072.69	7036.20	193.84	
1300.00	1283.00	0.00	0.00	1300.00	36.43	36.43	262.89	7072.69	7032.95	177.95	
1400.00	1383.00	0.00	0.00	1400.00	39.47	39.47	262.89	7072.69	7029.69	164.47	
1500.00	1483.00	0.00	0.00	1500.00	42.51	42.51	262.89	7072.69	7026.43	152.89	
1600.00	1583.00	0.00	0.00	1600.00	45.54	45.54	262.89	7072.69	7023.17	142.83	
1700.00	1683.00	0.00	0.00	1700.00	48.58	48.58	262.89	7072.69	7019.92	134.02	
1800.00	1782.98	0.00	0.00	1799.98	51.62	51.62	170.13	7074.41	7018.39	126.29	
1900.00	1882.84	0.00	0.00	1899.84	54.65	54.65	170.12	7079.57	7020.33	119.52	
2000.00	1982.45	0.00	0.00	1999.45	57.67	57.67	170.11	7088.15	7025.69	113.48	
2100.00	2081.70	0.00	0.00	2098.70	60.69	60.69	170.08	7100.16	7034.48	108.10	
2200.00	2180.47	0.00	0.00	2197.47	63.69	63.69	170.05	7115.57	7046.69	103.29	
2300.00	2278.62	0.00	0.00	2295.62	66.67	66.67	170.01	7134.38	7062.29	98.97	
2400.00	2376.06	0.00	0.00	2393.06	69.63	69.63	169.96	7156.54	7081.28	95.09	
2500.00	2472.64	0.00	0.00	2489.64	72.56	72.56	169.91	7182.05	7103.63	91.58	
2600.00	2568.42	0.00	0.00	2585.42	75.47	75.47	169.90	7210.38	7128.82	88.40	
2700.00	2664.10	0.00	0.00	2681.10	78.37	78.37	169.94	7239.05	7154.36	85.47	
2800.00	2759.78	0.00	0.00	2776.78	81.28	81.28	169.98	7267.73	7179.89	82.74	
2900.00	2855.45	0.00	0.00	2872.45	84.19	84.19	170.02	7296.41	7205.43	80.20	
3000.00	2951.13	0.00	0.00	2968.13	87.09	87.09	170.06	7325.09	7230.96	77.82	
3100.00	3046.81	0.00	0.00	3063.81	90.00	90.00	170.10	7353.77	7256.49	75.59	
3200.00	3142.49	0.00	0.00	3159.49	92.90	92.90	170.14	7382.46	7282.03	73.51	
3300.00	3238.16	0.00	0.00	3255.16	95.81	95.81	170.18	7411.15	7307.56	71.54	
3400.00	3333.84	0.00	0.00	3350.84	98.71	98.71	170.21	7439.85	7333.09	69.69	
3500.00	3429.52	0.00	0.00	3446.52	101.62	101.62	170.25	7468.54	7358.63	67.95	
3600.00	3525.20	0.00	0.00	3542.20	104.52	104.52	170.29	7497.24	7384.16	66.30	
3700.00	3620.87	0.00	0.00	3637.87	107.43	107.43	170.33	7525.94	7409.70	64.74	
3800.00	3716.55	0.00	0.00	3733.55	110.34	110.34	170.36	7554.65	7435.23	63.26	
3900.00	3812.23	0.00	0.00	3829.23	113.24	113.24	170.40	7583.36	7460.76	61.86	
4000.00	3907.91	0.00	0.00	3924.91	116.15	116.15	170.44	7612.07	7486.30	60.52	
4100.00	4003.58	0.00	0.00	4020.58	119.05	119.05	170.47	7640.79	7511.83	59.25	
4200.00	4099.26	0.00	0.00	4116.26	121.96	121.96	170.51	7669.50	7537.37	58.04	
4300.00	4194.94	0.00	0.00	4211.94	124.86	124.86	170.54	7698.22	7562.91	56.89	
4400.00	4290.61	0.00	0.00	4307.61	127.77	127.77	170.58	7726.94	7588.45	55.79	
4500.00	4386.29	0.00	0.00	4403.29	130.68	130.68	170.62	7755.67	7613.99	54.74	
4600.00	4481.97	0.00	0.00	4498.97	133.58	133.58	170.65	7784.40	7639.53	53.73	
4700.00	4577.65	0.00	0.00	4594.65	136.49	136.49	170.68	7813.13	7665.08	52.77	
4800.00	4673.32	0.00	0.00	4690.32	139.39	139.39	170.72	7841.86	7690.63	51.85	
4900.00	4769.00	0.00	0.00	4786.00	142.30	142.30	170.75	7870.60	7716.18	50.97	
5000.00	4864.68	0.00	0.00	4881.68	145.20	145.20	170.79	7899.34	7741.73	50.12	
5100.00	4960.36	0.00	0.00	4977.36	148.11	148.11	170.82	7928.08	7767.28	49.31	
5200.00	5056.03	0.00	0.00	5073.03	151.01	151.01	170.85	7956.82	7792.84	48.52	
5300.00	5151.71	0.00	0.00	5168.71	153.92	153.92	170.89	7985.57	7818.40	47.77	
5400.00	5247.39	0.00	0.00	5264.39	156.83	156.83	170.92	8014.31	7843.96	47.05	
5500.00	5343.06	0.00	0.00	5360.06	159.73	159.73	170.95	8043.06	7869.53	46.35	
5600.00	5438.74	0.00	0.00	5455.74	162.64	162.64	170.99	8071.82	7895.09	45.67	
5700.00	5534.42	0.00	0.00	5551.42	165.54	165.54	171.02	8100.57	7920.66	45.03	
5800.00	5630.10	0.00	0.00	5647.10	168.45	168.45	171.05	8129.33	7946.23	44.40	
5900.00	5725.77	0.00	0.00	5742.77	171.35	171.35	171.08	8158.09	7971.81	43.79	

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
6000.00	5821.45	0.00	0.00	5838.45	174.26	174.26	171.11	8186.85	7997.38	43.21	
6100.00	5917.13	0.00	0.00	5934.13	177.16	177.16	171.14	8215.62	8022.96	42.64	
6200.00	6012.81	0.00	0.00	6029.81	180.07	180.07	171.17	8244.38	8048.54	42.10	
6300.00	6108.82	0.00	0.00	6125.82	182.99	182.99	169.71	8271.96	8072.93	41.56	
6400.00	6207.33	0.00	0.00	6224.33	185.98	185.98	158.93	8288.20	8085.99	40.99	
6500.00	6307.17	0.00	0.00	6324.17	189.01	189.01	33.42	8290.58	8085.19	40.37	
6600.00	6406.38	0.00	0.00	6423.38	192.02	192.02	7.63	8279.04	8070.54	39.71	
6700.00	6503.04	0.00	0.00	6520.04	194.96	194.96	3.38	8253.81	8042.34	39.03	
6800.00	6595.27	0.00	0.00	6612.27	197.76	197.76	1.59	8215.39	8001.11	38.34	
6900.00	6681.26	0.00	0.00	6698.26	200.37	200.37	0.51	8164.52	7947.66	37.65	
7000.00	6759.35	0.00	0.00	6776.35	202.74	202.74	359.66	8102.18	7883.01	36.97	
7100.00	6828.01	0.00	0.00	6845.01	204.83	204.83	358.83	8029.60	7808.41	36.30	
7200.00	6885.92	0.00	0.00	6902.92	206.59	206.59	357.81	7948.18	7725.31	35.66	
7300.00	6931.94	0.00	0.00	6948.94	207.98	207.98	356.28	7859.51	7635.32	35.06	
7400.00	6965.17	0.00	0.00	6982.17	208.99	208.99	353.30	7765.32	7540.20	34.49	
7500.00	6984.98	0.00	0.00	7001.98	209.59	209.59	344.29	7667.44	7441.75	33.97	
7600.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	7567.77	7341.91	33.51	
7700.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	7467.86	7242.01	33.06	
7800.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	7367.95	7142.08	32.62	
7900.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	7268.04	7042.13	32.17	
8000.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	7168.13	6942.20	31.73	
8100.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	7068.23	6842.29	31.28	
8200.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	6968.32	6742.41	30.84	
8300.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	6868.43	6642.49	30.40	
8400.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	6768.53	6542.55	29.95	
8500.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	6668.64	6442.63	29.51	
8600.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	6568.75	6342.73	29.06	
8700.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	6468.86	6242.86	28.62	
8800.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	6368.98	6142.93	28.18	
8900.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	6269.10	6043.00	27.73	
9000.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	6169.22	5943.09	27.28	
9100.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	6069.35	5843.19	26.84	
9200.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	5969.49	5743.30	26.39	
9300.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	5869.62	5643.40	25.95	
9400.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	5769.77	5543.50	25.50	
9500.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	5669.91	5443.59	25.05	
9600.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	5570.07	5343.66	24.60	
9700.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	5470.23	5243.73	24.15	
9800.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	5370.39	5143.82	23.70	
9900.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	5270.56	5043.91	23.25	
10000.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	5170.74	4944.01	22.81	
10100.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	5070.92	4844.11	22.36	
10200.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	4971.11	4744.19	21.91	
10300.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	4871.31	4644.27	21.46	
10400.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	4771.52	4544.36	21.00	
10500.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	4671.74	4444.45	20.55	
10600.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	4571.97	4344.55	20.10	
10700.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	4472.20	4244.65	19.65	
10800.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	4372.45	4144.74	19.20	
10900.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	4272.71	4044.82	18.75	
11000.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	4172.98	3944.90	18.30	
11100.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	4073.26	3844.99	17.84	
11200.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	3973.56	3745.08	17.39	
11300.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	3873.88	3645.17	16.94	
11400.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	3774.21	3545.26	16.49	
11500.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	3674.56	3445.33	16.03	
11600.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	3574.92	3345.40	15.58	
11700.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	3475.31	3245.48	15.12	

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
11800.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	3375.73	3145.55	14.67	
11900.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	3276.16	3045.60	14.21	
12000.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	3176.63	2945.64	13.75	
12100.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	3077.12	2845.64	13.29	
12200.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	2977.65	2745.64	12.83	
12300.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	2878.22	2645.65	12.38	
12400.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	2778.82	2545.66	11.92	
12500.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	2679.47	2445.68	11.46	
12600.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	2580.18	2345.71	11.00	
12700.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	2480.93	2245.71	10.55	
12800.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	2381.75	2145.62	10.09	
12900.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	2282.65	2045.50	9.63	
13000.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	2183.62	1945.37	9.17	
13100.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	2084.69	1845.23	8.71	
13200.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	1985.86	1745.11	8.25	
13300.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	1887.16	1644.98	7.79	
13400.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	1788.60	1544.87	7.34	
13500.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	1690.21	1444.66	6.88	
13600.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	1592.02	1344.29	6.43	
13700.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	1494.07	1243.71	5.97	
13800.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	1396.41	1142.80	5.51	
13900.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	1299.11	1041.83	5.05	
14000.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	1202.25	940.81	4.60	
14100.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	1105.95	839.75	4.15	
14200.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	1010.37	738.48	3.72	
14300.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	915.74	637.18	3.29	
14400.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	822.37	535.73	2.87	
14500.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	730.77	433.17	2.46	SF(Lo)
14600.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	641.67	330.99	2.07	SF(Lo)
14700.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	556.29	229.05	1.70	SF(Lo)
14800.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	476.64	128.70	1.37	SF(Med)
14900.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	406.09	31.62	1.08	SF(Med)
15000.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	350.18	-53.07	0.87	SF(Hi)
15100.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	316.78	-110.28	0.74	SF(Hi)
15200.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	313.16	-119.61	0.72	SF(Hi)
15300.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	340.28	-77.36	0.81	SF(Hi)
15400.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	391.81	-1.19	1.00	SF(Hi)
15500.00	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	459.61	91.46	1.25	SF(Med)
15501.26	6991.00	0.00	0.00	7008.00	209.78	209.78	270.00	460.53	92.68	1.25	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	107.64	1532.32	1531.66	2320.31	
100.00	67.00	0.00	0.00	100.00	1.02	1.02	107.64	1531.97	1530.18	857.63	
200.00	167.00	0.00	0.00	200.00	2.54	2.54	107.64	1531.97	1528.43	433.76	
300.00	267.00	0.00	0.00	300.00	5.58	5.58	107.64	1531.97	1525.17	225.60	
400.00	367.00	0.00	0.00	400.00	8.61	8.61	107.64	1531.97	1521.92	152.44	
500.00	467.00	0.00	0.00	500.00	11.65	11.65	107.64	1531.97	1518.83	116.62	
600.00	567.00	0.00	0.00	600.00	14.69	14.69	107.64	1531.97	1515.57	93.44	
700.00	667.00	0.00	0.00	700.00	17.73	17.73	107.64	1531.97	1512.31	77.95	
800.00	767.00	0.00	0.00	800.00	20.76	20.76	107.64	1531.97	1509.05	66.86	
900.00	867.00	0.00	0.00	900.00	23.80	23.80	107.64	1531.97	1505.79	58.53	
1000.00	967.00	0.00	0.00	1000.00	26.84	26.84	107.64	1531.97	1502.53	52.05	
1100.00	1067.00	0.00	0.00	1100.00	29.87	29.87	107.64	1531.97	1499.28	46.86	
1200.00	1167.00	0.00	0.00	1200.00	32.91	32.91	107.64	1531.97	1496.02	42.62	
1300.00	1267.00	0.00	0.00	1300.00	35.95	35.95	107.64	1531.97	1492.76	39.07	
1400.00	1367.00	0.00	0.00	1400.00	38.98	38.98	107.64	1531.97	1489.50	36.07	

5D Anti-Collision Report

Secondary Well: Goetzel 29-10G6 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
1500.00	1467.00	0.00	0.00	1500.00	42.02	42.02	107.64	1531.97	1486.24	33.50	
1600.00	1567.00	0.00	0.00	1600.00	45.06	45.06	107.64	1531.97	1482.98	31.27	
1700.00	1667.00	0.00	0.00	1700.00	48.09	48.09	107.64	1531.97	1479.72	29.32	
1800.00	1766.98	0.00	0.00	1799.98	51.13	51.13	14.92	1530.28	1474.79	27.58	
1900.00	1866.84	0.00	0.00	1899.84	54.16	54.16	14.99	1525.22	1466.50	25.97	
2000.00	1966.45	0.00	0.00	1999.45	57.19	57.19	15.12	1516.80	1454.86	24.49	
2100.00	2065.70	0.00	0.00	2098.70	60.20	60.20	15.31	1505.04	1439.87	23.09	
2200.00	2164.47	0.00	0.00	2197.47	63.20	63.20	15.55	1489.95	1421.57	21.79	
2300.00	2262.62	0.00	0.00	2295.62	66.18	66.18	15.85	1471.55	1399.97	20.56	
2400.00	2360.06	0.00	0.00	2393.06	69.14	69.14	16.21	1449.89	1375.12	19.39	
2500.00	2456.64	0.00	0.00	2489.64	72.07	72.07	16.65	1425.00	1347.05	18.28	
2600.00	2552.42	0.00	0.00	2585.42	74.98	74.98	17.06	1397.40	1316.29	17.23	
2700.00	2648.10	0.00	0.00	2681.10	77.89	77.89	17.42	1369.52	1285.24	16.25	
2800.00	2743.78	0.00	0.00	2776.78	80.79	80.79	17.79	1341.69	1254.24	15.34	
2900.00	2839.45	0.00	0.00	2872.45	83.70	83.70	18.17	1313.92	1223.29	14.50	
3000.00	2935.13	0.00	0.00	2968.13	86.61	86.61	18.58	1286.20	1192.40	13.71	
3100.00	3030.81	0.00	0.00	3063.81	89.51	89.51	19.00	1258.54	1161.56	12.98	
3200.00	3126.49	0.00	0.00	3159.49	92.42	92.42	19.43	1230.95	1130.80	12.29	
3300.00	3222.16	0.00	0.00	3255.16	95.32	95.32	19.89	1203.43	1100.10	11.65	
3400.00	3317.84	0.00	0.00	3350.84	98.23	98.23	20.37	1175.99	1069.48	11.04	
3500.00	3413.52	0.00	0.00	3446.52	101.13	101.13	20.87	1148.62	1038.94	10.47	
3600.00	3509.20	0.00	0.00	3542.20	104.04	104.04	21.40	1121.35	1008.48	9.93	
3700.00	3604.87	0.00	0.00	3637.87	106.94	106.94	21.95	1094.16	978.11	9.43	
3800.00	3700.55	0.00	0.00	3733.55	109.85	109.85	22.53	1067.08	947.86	8.95	
3900.00	3796.23	0.00	0.00	3829.23	112.76	112.76	23.14	1040.10	917.73	8.50	
4000.00	3891.91	0.00	0.00	3924.91	115.66	115.66	23.79	1013.24	887.51	8.06	
4100.00	3987.58	0.00	0.00	4020.58	118.57	118.57	24.46	986.51	857.42	7.64	
4200.00	4083.26	0.00	0.00	4116.26	121.47	121.47	25.17	959.91	827.46	7.25	
4300.00	4178.94	0.00	0.00	4211.94	124.38	124.38	25.93	933.46	797.65	6.87	
4400.00	4274.61	0.00	0.00	4307.61	127.28	127.28	26.72	907.18	767.98	6.52	
4500.00	4370.29	0.00	0.00	4403.29	130.19	130.19	27.57	881.06	738.48	6.18	
4600.00	4465.97	0.00	0.00	4498.97	133.10	133.10	28.46	855.15	709.19	5.86	
4700.00	4561.65	0.00	0.00	4594.65	136.00	136.00	29.41	829.44	680.13	5.56	
4800.00	4657.32	0.00	0.00	4690.32	138.91	138.91	30.41	803.96	651.33	5.27	
4900.00	4753.00	0.00	0.00	4786.00	141.81	141.81	31.49	778.73	622.83	4.99	
5000.00	4848.68	0.00	0.00	4881.68	144.72	144.72	32.63	753.78	594.65	4.74	
5100.00	4944.36	0.00	0.00	4977.36	147.62	147.62	33.84	729.14	566.61	4.49	
5200.00	5040.03	0.00	0.00	5073.03	150.53	150.53	35.14	704.83	538.57	4.24	
5300.00	5135.71	0.00	0.00	5168.71	153.43	153.43	36.53	680.90	510.95	4.01	
5400.00	5231.39	0.00	0.00	5264.39	156.34	156.34	38.01	657.39	483.80	3.79	
5500.00	5327.06	0.00	0.00	5360.06	159.25	159.25	39.60	634.34	457.20	3.58	
5600.00	5422.74	0.00	0.00	5455.74	162.15	162.15	41.31	611.80	431.23	3.39	
5700.00	5518.42	0.00	0.00	5551.42	165.06	165.06	43.13	589.83	405.91	3.21	
5800.00	5614.10	0.00	0.00	5647.10	167.96	167.96	45.10	568.51	380.60	3.03	
5900.00	5709.77	0.00	0.00	5742.77	170.87	170.87	47.20	547.90	355.97	2.85	
6000.00	5805.45	0.00	0.00	5838.45	173.77	173.77	49.46	528.09	332.34	2.70	
6100.00	5901.13	0.00	0.00	5934.13	176.68	176.68	51.88	509.16	309.90	2.56	
6200.00	5996.81	0.00	0.00	6029.81	179.58	179.58	54.47	491.24	288.17	2.42	SF(Lo)
6300.00	6092.82	0.00	0.00	6125.82	182.50	182.50	55.13	474.97	267.59	2.29	SF(Lo)
6400.00	6191.33	0.00	0.00	6224.33	185.49	185.49	45.12	464.66	253.69	2.20	SF(Lo)
6500.00	6291.17	0.00	0.00	6324.17	188.52	188.52	279.40	460.68	246.54	2.15	SF(Lo)
6600.00	6390.38	0.00	0.00	6423.38	191.54	191.54	252.36	463.02	246.18	2.14	SF(Lo)
6700.00	6487.04	0.00	0.00	6520.04	194.47	194.47	246.05	472.54	253.88	2.16	SF(Lo)
6800.00	6579.27	0.00	0.00	6612.27	197.27	197.27	241.81	490.71	269.83	2.22	SF(Lo)
6900.00	6665.26	0.00	0.00	6698.26	199.88	199.88	238.43	519.11	296.85	2.34	SF(Lo)
7000.00	6743.35	0.00	0.00	6776.35	202.26	202.26	235.99	558.93	335.42	2.50	
7100.00	6812.01	0.00	0.00	6845.01	204.34	204.34	234.80	610.55	386.13	2.72	
7200.00	6869.92	0.00	0.00	6902.92	206.10	206.10	235.31	673.46	448.08	2.99	

5D Anti-Collision Report

Secondary Well: Goetzel 29-10G6 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
7300.00	6915.94	0.00	0.00	6948.94	207.50	207.50	238.11	746.36	520.06	3.30	
7400.00	6949.17	0.00	0.00	6982.17	208.51	208.51	244.16	827.44	601.32	3.66	
7500.00	6968.98	0.00	0.00	7001.98	209.11	209.11	254.87	914.60	687.44	4.03	
7600.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	1005.58	778.23	4.42	
7700.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	1098.39	871.29	4.84	
7800.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	1192.37	965.66	5.26	
7900.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	1287.25	1060.56	5.68	
8000.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	1382.86	1155.78	6.09	
8100.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	1479.05	1251.71	6.51	
8200.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	1575.71	1348.21	6.93	
8300.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	1672.76	1445.18	7.35	
8400.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	1770.15	1542.55	7.78	
8500.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	1867.80	1640.14	8.20	
8600.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	1965.70	1738.01	8.63	
8700.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	2063.80	1836.12	9.06	
8800.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	2162.07	1934.40	9.50	
8900.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	2260.49	2032.85	9.93	
9000.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	2359.04	2131.45	10.37	
9100.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	2457.72	2230.17	10.80	
9200.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	2556.49	2328.96	11.24	
9300.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	2655.36	2427.85	11.67	
9400.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	2754.31	2526.73	12.10	
9500.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	2853.33	2625.60	12.53	
9600.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	2952.42	2724.56	12.96	
9700.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	3051.56	2823.60	13.39	
9800.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	3150.77	2922.70	13.81	
9900.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	3250.02	3021.85	14.24	
10000.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	3349.31	3121.07	14.67	
10100.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	3448.65	3220.32	15.10	
10200.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	3548.02	3319.61	15.53	
10300.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	3647.43	3418.94	15.96	
10400.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	3746.87	3518.30	16.39	
10500.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	3846.33	3617.70	16.82	
10600.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	3945.83	3717.13	17.25	
10700.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	4045.35	3816.59	17.68	
10800.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	4144.89	3916.07	18.11	
10900.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	4244.45	4015.58	18.54	
11000.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	4344.04	4115.11	18.98	
11100.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	4443.64	4214.66	19.41	
11200.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	4543.26	4314.23	19.84	
11300.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	4642.90	4413.82	20.27	
11400.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	4742.55	4513.43	20.70	
11500.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	4842.22	4613.04	21.13	
11600.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	4941.90	4712.67	21.56	
11700.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	5041.59	4812.31	21.99	
11800.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	5141.29	4911.96	22.42	
11900.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	5241.01	5011.62	22.85	
12000.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	5340.74	5111.30	23.28	
12100.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	5440.47	5210.99	23.71	
12200.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	5540.22	5310.69	24.14	
12300.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	5639.97	5410.39	24.57	
12400.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	5739.74	5510.11	25.00	
12500.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	5839.51	5609.83	25.43	
12600.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	5939.29	5709.57	25.85	
12700.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	6039.07	5809.31	26.28	
12800.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	6138.87	5909.05	26.71	
12900.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	6238.67	6008.81	27.14	
13000.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	6338.47	6108.57	27.57	

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
13100.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	6438.29	6208.33	28.00	
13200.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	6538.10	6308.11	28.43	
13300.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	6637.93	6407.88	28.85	
13400.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	6737.76	6507.67	29.28	
13500.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	6837.59	6607.45	29.71	
13600.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	6937.43	6707.25	30.14	
13700.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	7037.27	6807.04	30.57	
13800.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	7137.12	6906.84	30.99	
13900.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	7236.97	7006.65	31.42	
14000.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	7336.83	7106.46	31.85	
14100.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	7436.69	7206.27	32.27	
14200.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	7536.55	7306.09	32.70	
14300.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	7636.42	7405.91	33.13	
14400.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	7736.29	7505.73	33.55	
14500.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	7836.16	7605.55	33.98	
14600.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	7936.04	7705.38	34.41	
14700.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	8035.92	7805.21	34.83	
14800.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	8135.80	7905.05	35.26	
14900.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	8235.69	8004.88	35.68	
15000.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	8335.58	8104.72	36.11	
15100.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	8435.47	8204.56	36.53	
15200.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	8535.36	8304.41	36.96	
15300.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	8635.26	8404.25	37.38	
15400.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	8735.16	8504.10	37.81	
15500.00	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	8835.06	8603.95	38.23	
15501.26	6975.00	0.00	0.00	7008.00	209.29	209.29	270.00	8836.31	8605.20	38.23	
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	257.20	6864.22	6863.49	9427.55	
100.00	75.00	0.00	0.00	100.00	1.14	1.14	257.20	6864.17	6862.19	3475.84	
200.00	175.00	0.00	0.00	200.00	2.78	2.78	257.20	6864.17	6860.33	1786.98	
300.00	275.00	0.00	0.00	300.00	5.82	5.82	257.20	6864.17	6857.07	966.92	
400.00	375.00	0.00	0.00	400.00	8.86	8.86	257.20	6864.17	6853.81	662.77	
500.00	475.00	0.00	0.00	500.00	11.89	11.89	257.20	6864.17	6850.73	510.63	
600.00	575.00	0.00	0.00	600.00	14.93	14.93	257.20	6864.17	6847.47	411.02	
700.00	675.00	0.00	0.00	700.00	17.97	17.97	257.20	6864.17	6844.21	343.93	
800.00	775.00	0.00	0.00	800.00	21.01	21.01	257.20	6864.17	6840.95	295.67	
900.00	875.00	0.00	0.00	900.00	24.04	24.04	257.20	6864.17	6837.70	259.28	
1000.00	975.00	0.00	0.00	1000.00	27.08	27.08	257.20	6864.17	6834.44	230.87	
1100.00	1075.00	0.00	0.00	1100.00	30.12	30.12	257.20	6864.17	6831.18	208.07	
1200.00	1175.00	0.00	0.00	1200.00	33.15	33.15	257.20	6864.17	6827.92	189.37	
1300.00	1275.00	0.00	0.00	1300.00	36.19	36.19	257.20	6864.17	6824.66	173.76	
1400.00	1375.00	0.00	0.00	1400.00	39.23	39.23	257.20	6864.17	6821.41	160.52	
1500.00	1475.00	0.00	0.00	1500.00	42.26	42.26	257.20	6864.17	6818.15	149.16	
1600.00	1575.00	0.00	0.00	1600.00	45.30	45.30	257.20	6864.17	6814.89	139.29	
1700.00	1675.00	0.00	0.00	1700.00	48.34	48.34	257.20	6864.17	6811.63	130.66	
1800.00	1774.98	0.00	0.00	1799.98	51.37	51.37	164.45	6865.85	6810.07	123.09	
1900.00	1874.84	0.00	0.00	1899.84	54.41	54.41	164.43	6870.89	6811.88	116.44	
2000.00	1974.45	0.00	0.00	1999.45	57.43	57.43	164.41	6879.29	6817.06	110.54	
2100.00	2073.70	0.00	0.00	2098.70	60.44	60.44	164.37	6891.03	6825.58	105.28	
2200.00	2172.47	0.00	0.00	2197.47	63.44	63.44	164.32	6906.11	6837.44	100.58	
2300.00	2270.62	0.00	0.00	2295.62	66.43	66.43	164.26	6924.50	6852.63	96.35	
2400.00	2368.06	0.00	0.00	2393.06	69.38	69.38	164.19	6946.19	6871.13	92.55	
2500.00	2464.64	0.00	0.00	2489.64	72.32	72.32	164.11	6971.15	6892.92	89.11	
2600.00	2560.42	0.00	0.00	2585.42	75.23	75.23	164.10	6998.87	6917.49	86.00	
2700.00	2656.10	0.00	0.00	2681.10	78.13	78.13	164.17	7026.94	6942.39	83.12	

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
2800.00	2751.78	0.00	0.00	2776.78	81.04	81.04	164.23	7055.01	6967.31	80.44	
2900.00	2847.45	0.00	0.00	2872.45	83.94	83.94	164.30	7083.09	6992.22	77.94	
3000.00	2943.13	0.00	0.00	2968.13	86.85	86.85	164.36	7111.18	7017.13	75.61	
3100.00	3038.81	0.00	0.00	3063.81	89.75	89.75	164.42	7139.28	7042.05	73.43	
3200.00	3134.49	0.00	0.00	3159.49	92.66	92.66	164.48	7167.38	7066.98	71.38	
3300.00	3230.16	0.00	0.00	3255.16	95.57	95.57	164.55	7195.50	7091.90	69.46	
3400.00	3325.84	0.00	0.00	3350.84	98.47	98.47	164.61	7223.62	7116.84	67.65	
3500.00	3421.52	0.00	0.00	3446.52	101.38	101.38	164.67	7251.74	7141.77	65.94	
3600.00	3517.20	0.00	0.00	3542.20	104.28	104.28	164.73	7279.88	7166.72	64.33	
3700.00	3612.87	0.00	0.00	3637.87	107.19	107.19	164.79	7308.02	7191.66	62.81	
3800.00	3708.55	0.00	0.00	3733.55	110.09	110.09	164.85	7336.17	7216.62	61.36	
3900.00	3804.23	0.00	0.00	3829.23	113.00	113.00	164.91	7364.33	7241.58	59.99	
4000.00	3899.91	0.00	0.00	3924.91	115.90	115.90	164.97	7392.49	7266.54	58.69	
4100.00	3995.58	0.00	0.00	4020.58	118.81	118.81	165.02	7420.67	7291.51	57.45	
4200.00	4091.26	0.00	0.00	4116.26	121.72	121.72	165.08	7448.85	7316.48	56.28	
4300.00	4186.94	0.00	0.00	4211.94	124.62	124.62	165.14	7477.03	7341.46	55.15	
4400.00	4282.61	0.00	0.00	4307.61	127.53	127.53	165.20	7505.22	7366.45	54.08	
4500.00	4378.29	0.00	0.00	4403.29	130.43	130.43	165.25	7533.42	7391.44	53.06	
4600.00	4473.97	0.00	0.00	4498.97	133.34	133.34	165.31	7561.63	7416.43	52.08	
4700.00	4569.65	0.00	0.00	4594.65	136.24	136.24	165.36	7589.84	7441.44	51.14	
4800.00	4665.32	0.00	0.00	4690.32	139.15	139.15	165.42	7618.06	7466.44	50.25	
4900.00	4761.00	0.00	0.00	4786.00	142.05	142.05	165.47	7646.29	7491.46	49.39	
5000.00	4856.68	0.00	0.00	4881.68	144.96	144.96	165.53	7674.52	7516.48	48.56	
5100.00	4952.36	0.00	0.00	4977.36	147.87	147.87	165.58	7702.76	7541.51	47.77	
5200.00	5048.03	0.00	0.00	5073.03	150.77	150.77	165.63	7731.00	7566.54	47.01	
5300.00	5143.71	0.00	0.00	5168.71	153.68	153.68	165.69	7759.25	7591.58	46.27	
5400.00	5239.39	0.00	0.00	5264.39	156.58	156.58	165.74	7787.51	7616.62	45.57	
5500.00	5335.06	0.00	0.00	5360.06	159.49	159.49	165.79	7815.77	7641.67	44.89	
5600.00	5430.74	0.00	0.00	5455.74	162.39	162.39	165.84	7844.04	7666.72	44.24	
5700.00	5526.42	0.00	0.00	5551.42	165.30	165.30	165.90	7872.32	7691.78	43.61	
5800.00	5622.10	0.00	0.00	5647.10	168.21	168.21	165.95	7900.60	7716.85	43.00	
5900.00	5717.77	0.00	0.00	5742.77	171.11	171.11	166.00	7928.88	7741.92	42.41	
6000.00	5813.45	0.00	0.00	5838.45	174.02	174.02	166.05	7957.18	7767.00	41.84	
6100.00	5909.13	0.00	0.00	5934.13	176.92	176.92	166.10	7985.48	7792.08	41.29	
6200.00	6004.81	0.00	0.00	6029.81	179.83	179.83	166.15	8013.78	7817.17	40.76	
6300.00	6100.82	0.00	0.00	6125.82	182.74	182.74	164.78	8040.90	7841.09	40.24	
6400.00	6199.33	0.00	0.00	6224.33	185.74	185.74	154.12	8056.77	7853.75	39.68	
6500.00	6299.17	0.00	0.00	6324.17	188.77	188.77	28.62	8058.86	7852.65	39.08	
6600.00	6398.38	0.00	0.00	6423.38	191.78	191.78	2.74	8047.13	7837.81	38.44	
6700.00	6495.04	0.00	0.00	6520.04	194.72	194.72	358.29	8021.82	7809.50	37.78	
6800.00	6587.27	0.00	0.00	6612.27	197.52	197.52	356.18	7983.41	7768.29	37.11	
6900.00	6673.26	0.00	0.00	6698.26	200.13	200.13	354.60	7932.65	7714.95	36.44	
7000.00	6751.35	0.00	0.00	6776.35	202.50	202.50	353.01	7870.54	7650.52	35.77	
7100.00	6820.01	0.00	0.00	6845.01	204.58	204.58	351.07	7798.28	7576.24	35.12	
7200.00	6877.92	0.00	0.00	6902.92	206.34	206.34	348.33	7717.29	7493.56	34.49	
7300.00	6923.94	0.00	0.00	6948.94	207.74	207.74	343.90	7629.14	7404.08	33.90	
7400.00	6957.17	0.00	0.00	6982.17	208.75	208.75	335.48	7535.56	7309.53	33.34	
7500.00	6976.98	0.00	0.00	7001.98	209.35	209.35	315.36	7438.37	7211.77	32.83	
7600.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	7339.48	7112.70	32.36	
7700.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	7240.37	7013.61	31.93	
7800.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	7141.30	6914.53	31.49	
7900.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	7042.24	6815.41	31.05	
8000.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	6943.22	6716.33	30.60	
8100.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	6844.22	6617.28	30.16	
8200.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	6745.25	6518.27	29.72	
8300.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	6646.31	6419.30	29.28	
8400.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	6547.41	6320.26	28.82	
8500.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	6448.53	6221.23	28.37	

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
8600.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	6349.70	6122.25	27.92	
8700.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	6250.90	6023.30	27.46	
8800.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	6152.14	5924.40	27.01	
8900.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	6053.42	5825.54	26.56	
9000.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	5954.74	5726.64	26.11	
9100.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	5856.11	5627.78	25.65	
9200.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	5757.53	5528.95	25.19	
9300.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	5658.99	5430.15	24.73	
9400.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	5560.51	5331.38	24.27	
9500.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	5462.08	5232.60	23.80	
9600.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	5363.71	5133.87	23.34	
9700.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	5265.40	5035.19	22.87	
9800.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	5167.16	4936.55	22.41	
9900.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	5068.98	4837.93	21.94	
10000.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	4970.88	4739.30	21.47	
10100.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	4872.86	4640.73	20.99	
10200.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	4774.92	4542.17	20.52	
10300.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	4677.06	4443.57	20.03	
10400.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	4579.30	4345.03	19.55	
10500.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	4481.63	4246.56	19.06	
10600.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	4384.07	4148.08	18.58	
10700.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	4286.63	4049.67	18.09	
10800.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	4189.30	3951.34	17.61	
10900.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	4092.10	3853.11	17.12	
11000.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	3995.05	3754.96	16.64	
11100.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	3898.14	3656.91	16.16	
11200.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	3801.39	3558.89	15.68	
11300.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	3704.81	3460.99	15.20	
11400.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	3608.42	3363.22	14.72	
11500.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	3512.23	3265.53	14.24	
11600.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	3416.26	3167.96	13.76	
11700.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	3320.53	3070.56	13.28	
11800.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	3225.05	2973.33	12.81	
11900.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	3129.86	2876.30	12.34	
12000.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	3034.98	2779.49	11.88	
12100.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	2940.44	2682.92	11.42	
12200.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	2846.27	2586.62	10.96	
12300.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	2752.51	2490.61	10.51	
12400.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	2659.21	2394.83	10.06	
12500.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	2566.41	2299.04	9.60	
12600.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	2474.17	2203.51	9.14	
12700.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	2382.56	2108.41	8.69	
12800.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	2291.65	2013.83	8.25	
12900.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	2201.53	1919.82	7.81	
13000.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	2112.30	1826.50	7.39	
13100.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	2024.08	1733.96	6.98	
13200.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	1937.00	1642.33	6.57	
13300.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	1851.23	1551.67	6.18	
13400.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	1766.95	1461.24	5.78	
13500.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	1684.39	1372.23	5.40	
13600.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	1603.82	1284.94	5.03	
13700.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	1525.56	1199.73	4.68	
13800.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	1449.96	1116.75	4.35	
13900.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	1377.49	1035.28	4.03	
14000.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	1308.64	957.32	3.72	
14100.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	1244.03	883.81	3.45	
14200.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	1184.35	813.51	3.19	
14300.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	1130.38	749.57	2.97	

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
14400.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	1082.97	692.09	2.77	
14500.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	1043.02	642.47	2.60	
14600.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	1011.42	602.18	2.47	SF(Lo)
14700.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	988.96	572.50	2.37	SF(Lo)
14800.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	976.27	553.98	2.31	SF(Lo)
14900.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	973.75	548.74	2.29	SF(Lo)
15000.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	981.46	554.57	2.30	SF(Lo)
15100.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	999.16	573.73	2.35	SF(Lo)
15200.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	1026.35	603.58	2.43	SF(Lo)
15300.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	1062.29	644.29	2.54	
15400.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	1106.14	693.64	2.68	
15500.00	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	1156.98	751.37	2.85	
15501.26	6983.00	0.00	0.00	7008.00	209.53	209.53	270.00	1157.66	752.13	2.85	
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	359.95	40.07	39.34	54.65	CC (Lo)
100.00	100.00	0.00	0.00	100.00	0.11	0.11	359.95	40.07	39.12	42.01	CC (Lo)
200.00	200.00	0.00	0.00	200.00	0.34	0.34	359.95	40.07	38.67	28.55	CC (Lo)
300.00	300.00	0.00	0.00	300.00	0.56	0.56	359.95	40.07	38.22	21.63	CC (Lo)
400.00	400.00	0.00	0.00	400.00	0.79	0.79	359.95	40.07	37.77	17.40	CC (Lo)
500.00	500.00	0.00	0.00	500.00	1.01	1.01	359.95	40.07	37.32	14.56	CC (Lo)
600.00	600.00	0.00	0.00	600.00	1.24	1.24	359.95	40.07	36.87	12.52	CC (Lo)
700.00	700.00	0.00	0.00	700.00	1.46	1.46	359.95	40.07	36.42	10.98	CC (Lo)
800.00	800.00	0.00	0.00	800.00	1.69	1.69	359.95	40.07	35.97	9.77	CC (Lo)
900.00	900.00	0.00	0.00	900.00	1.91	1.91	359.95	40.07	35.52	8.81	CC (Lo)
1000.00	1000.00	0.00	0.00	1000.00	2.14	2.14	359.95	40.07	35.07	8.01	CC (Lo)
1100.00	1100.00	0.00	0.00	1100.00	2.36	2.36	359.95	40.07	34.62	7.35	CC (Lo)
1200.00	1200.00	0.00	0.00	1200.00	2.58	2.58	359.95	40.07	34.18	6.79	CC (Lo)
1300.00	1300.00	0.00	0.00	1300.00	2.81	2.81	359.95	40.07	33.73	6.31	CC (Lo)
1400.00	1400.00	0.00	0.00	1400.00	3.03	3.03	359.95	40.07	33.28	5.89	CC (Lo)
1500.00	1500.00	0.00	0.00	1500.00	3.26	3.26	359.95	40.07	32.83	5.53	CC (Lo)
1600.00	1600.00	0.00	0.00	1600.00	3.48	3.48	359.95	40.07	32.38	5.21	CC (Lo)
1700.00	1700.00	0.00	0.00	1700.00	3.71	3.71	359.95	40.07	31.93	4.92	CC (Lo)
1800.00	1799.98	0.00	0.00	1799.98	3.93	3.93	264.72	40.20	31.62	4.69	CC (Lo)
1900.00	1899.74	1.99	78.00	1899.72	4.15	4.14	259.87	41.11	32.13	4.58	CC (Lo)
2000.00	1999.61	3.99	78.00	1999.45	4.35	4.34	255.42	43.20	33.80	4.59	CC (Lo)
2100.00	2099.56	5.99	78.00	2099.02	4.57	4.54	251.64	46.40	36.55	4.71	CC (Lo)
2200.00	2199.60	7.99	78.00	2198.30	4.80	4.74	248.63	50.65	40.34	4.91	CC (Lo)
2300.00	2299.70	9.99	78.00	2297.17	5.05	4.93	246.37	55.86	45.05	5.17	CC (Lo)
2400.00	2399.86	12.00	78.00	2395.48	5.34	5.13	244.79	61.98	50.60	5.45	CC (Lo)
2500.00	2500.06	14.00	78.00	2493.11	5.66	5.32	243.77	68.96	56.94	5.74	
2600.00	2600.31	16.01	78.00	2589.94	6.02	5.52	243.47	76.55	63.80	6.00	
2700.00	2700.37	17.19	78.00	2685.71	6.44	5.74	245.09	83.64	70.02	6.14	
2800.00	2800.08	17.19	78.00	2780.97	6.90	5.98	246.84	90.70	76.13	6.23	
2900.00	2899.80	17.19	78.00	2876.23	7.38	6.23	248.33	97.82	82.28	6.30	
3000.00	2999.52	17.19	78.00	2971.50	7.87	6.48	249.62	105.01	88.47	6.35	
3100.00	3099.23	17.19	78.00	3066.76	8.39	6.73	250.74	112.24	94.67	6.39	
3200.00	3198.95	17.19	78.00	3162.02	8.92	6.99	251.73	119.50	100.89	6.42	
3300.00	3298.66	17.19	78.00	3257.29	9.46	7.26	252.61	126.80	107.09	6.43	
3400.00	3398.38	17.19	78.00	3352.55	10.02	7.52	253.38	134.13	113.29	6.44	
3500.00	3498.09	17.19	78.00	3447.81	10.58	7.80	254.08	141.47	119.49	6.44	
3600.00	3597.81	17.19	78.00	3543.08	11.14	8.07	254.71	148.84	125.71	6.44	
3700.00	3697.53	17.19	78.00	3638.34	11.72	8.34	255.28	156.22	131.94	6.43	
3800.00	3797.24	17.19	78.00	3733.60	12.29	8.62	255.80	163.62	138.17	6.43	
3900.00	3896.96	17.19	78.00	3828.87	12.88	8.90	256.27	171.03	144.40	6.42	
4000.00	3996.67	17.19	78.00	3924.13	13.46	9.18	256.71	178.44	150.65	6.42	

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
4100.00	4096.39	17.19	78.00	4019.39	14.05	9.46	257.11	185.87	156.89	6.41	
4200.00	4196.10	17.19	78.00	4114.66	14.65	9.75	257.48	193.31	163.14	6.41	
4300.00	4295.82	17.19	78.00	4209.92	15.24	10.03	257.82	200.75	169.40	6.40	
4400.00	4395.54	17.19	78.00	4305.18	15.84	10.32	258.13	208.20	175.66	6.40	
4500.00	4495.25	17.19	78.00	4400.45	16.44	10.61	258.43	215.66	181.92	6.39	
4600.00	4594.97	17.19	78.00	4495.71	17.04	10.90	258.70	223.12	188.18	6.39	
4700.00	4694.68	17.19	78.00	4590.97	17.64	11.18	258.96	230.59	194.45	6.38	
4800.00	4794.40	17.19	78.00	4686.24	18.25	11.48	259.20	238.06	200.72	6.38	
4900.00	4894.11	17.19	78.00	4781.50	18.85	11.77	259.43	245.53	206.99	6.37	
5000.00	4993.83	17.19	78.00	4876.76	19.46	12.06	259.64	253.01	213.26	6.36	
5100.00	5093.55	17.19	78.00	4972.03	20.07	12.35	259.84	260.49	219.53	6.36	
5200.00	5193.26	17.19	78.00	5067.29	20.68	12.65	260.03	267.97	225.81	6.36	
5300.00	5292.98	17.19	78.00	5162.55	21.29	12.94	260.21	275.46	232.08	6.35	
5400.00	5392.69	17.19	78.00	5257.82	21.90	13.23	260.38	282.95	238.36	6.35	
5500.00	5492.41	17.19	78.00	5353.08	22.51	13.53	260.54	290.44	244.64	6.34	
5600.00	5592.12	17.19	78.00	5448.34	23.13	13.82	260.70	297.94	250.92	6.34	
5700.00	5691.84	17.19	78.00	5543.61	23.74	14.12	260.84	305.43	257.20	6.33	
5800.00	5791.56	17.19	78.00	5638.87	24.35	14.42	260.98	312.93	263.49	6.33	
5900.00	5891.27	17.19	78.00	5734.13	24.97	14.71	261.11	320.43	269.77	6.32	
6000.00	5990.99	17.19	78.00	5829.40	25.58	15.01	261.24	327.93	276.06	6.32	
6100.00	6090.70	17.19	78.00	5924.66	26.20	15.31	261.36	335.44	282.34	6.32	
6200.00	6190.42	17.19	78.00	6019.92	26.82	15.61	261.48	342.94	288.63	6.31	
6300.00	6290.11	17.19	78.00	6115.16	27.43	15.91	260.01	350.40	294.92	6.32	
6400.00	6388.87	17.19	78.00	6209.51	28.04	16.20	250.70	357.68	301.29	6.34	
6500.00	6486.75	10.12	71.37	6304.46	28.44	16.45	127.78	365.80	308.90	6.43	
6600.00	6587.53	3.22	28.60	6404.53	28.65	16.42	104.52	375.12	318.10	6.58	
6700.00	6691.56	7.17	289.21	6508.25	28.68	16.07	102.67	385.37	328.62	6.79	
6800.00	6799.09	15.47	276.83	6613.61	28.56	15.40	103.14	396.17	340.04	7.06	
6900.00	6910.30	24.28	272.98	6718.10	28.31	14.39	104.14	407.10	351.81	7.36	
7000.00	7025.22	33.43	271.05	6818.66	27.99	13.11	105.22	417.68	363.32	7.68	
7100.00	7143.76	42.88	269.84	6911.76	27.67	11.67	106.18	427.43	373.90	7.99	
7200.00	7265.58	52.61	268.99	6993.59	27.47	10.29	106.93	435.86	382.86	8.22	
7300.00	7390.13	62.55	268.31	7060.28	27.50	9.31	107.42	442.56	389.65	8.36	
7400.00	7516.63	72.66	267.75	7108.41	27.87	9.15	107.62	447.19	393.71	8.36	
7500.00	7644.09	82.84	267.24	7135.41	28.62	9.96	107.51	449.54	394.70	8.20	
7600.00	7763.39	90.00	266.89	7141.00	29.62	11.12	107.20	449.79	393.08	7.93	
7700.00	7863.39	90.00	266.89	7141.00	30.70	11.60	107.19	450.14	391.41	7.66	
7800.00	7963.39	90.00	266.89	7141.00	31.99	12.10	107.17	450.50	389.35	7.37	
7900.00	8063.39	90.00	266.89	7141.00	33.46	12.62	107.16	450.85	386.93	7.05	
8000.00	8163.39	90.00	266.89	7141.00	35.09	13.16	107.14	451.20	384.21	6.73	
8100.00	8263.39	90.00	266.89	7141.00	36.86	13.72	107.13	451.56	381.21	6.42	
8200.00	8363.39	90.00	266.89	7141.00	38.75	14.30	107.12	451.91	377.93	6.11	
8300.00	8463.39	90.00	266.89	7141.00	40.75	14.89	107.10	452.27	374.43	5.81	
8400.00	8563.38	90.00	266.89	7141.00	42.83	15.49	107.09	452.62	370.76	5.53	
8500.00	8663.38	90.00	266.89	7141.00	45.00	16.11	107.07	452.97	366.95	5.27	
8600.00	8763.38	90.00	266.89	7141.00	47.23	16.73	107.06	453.33	363.00	5.02	
8700.00	8863.38	90.00	266.89	7141.00	49.52	17.36	107.05	453.68	358.95	4.79	
8800.00	8963.38	90.00	266.89	7141.00	51.86	18.00	107.03	454.04	354.80	4.58	
8900.00	9063.38	90.00	266.89	7141.00	54.24	18.65	107.02	454.39	350.58	4.38	
9000.00	9163.38	90.00	266.89	7141.00	56.66	19.30	107.01	454.75	346.28	4.19	
9100.00	9263.38	90.00	266.89	7141.00	59.12	19.96	106.99	455.10	341.92	4.02	
9200.00	9363.38	90.00	266.89	7141.00	61.60	20.62	106.98	455.45	337.50	3.86	
9300.00	9463.38	90.00	266.89	7141.00	64.11	21.29	106.97	455.81	333.04	3.71	
9400.00	9563.38	90.00	266.89	7141.00	66.64	21.97	106.95	456.16	328.53	3.57	
9500.00	9663.38	90.00	266.89	7141.00	69.20	22.64	106.94	456.52	323.99	3.44	
9600.00	9763.38	90.00	266.89	7141.00	71.77	23.32	106.92	456.87	319.41	3.32	
9700.00	9863.38	90.00	266.89	7141.00	74.36	24.00	106.91	457.23	314.81	3.21	
9800.00	9963.38	90.00	266.89	7141.00	76.96	24.69	106.90	457.58	310.17	3.10	

5D Anti-Collision Report

Secondary Well: Goetzel 32C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
9900.00	10063.37	90.00	266.89	7141.00	79.58	25.38	106.88	457.94	305.51	3.00	
10000.00	10163.37	90.00	266.89	7141.00	82.20	26.07	106.87	458.29	300.83	2.91	
10100.00	10263.37	90.00	266.89	7141.00	84.84	26.76	106.86	458.64	296.12	2.82	
10200.00	10363.37	90.00	266.89	7141.00	87.49	27.46	106.84	459.00	291.40	2.74	
10300.00	10463.37	90.00	266.89	7141.00	90.15	28.15	106.83	459.35	286.66	2.66	
10400.00	10563.37	90.00	266.89	7141.00	92.82	28.85	106.82	459.71	281.90	2.59	
10500.00	10663.37	90.00	266.89	7141.00	95.49	29.55	106.80	460.06	277.13	2.51	
10600.00	10763.37	90.00	266.89	7141.00	98.17	30.25	106.79	460.42	272.35	2.45	SF(Lo)
10700.00	10863.37	90.00	266.89	7141.00	100.86	30.96	106.78	460.77	267.55	2.38	SF(Lo)
10800.00	10963.37	90.00	266.89	7141.00	103.55	31.66	106.76	461.13	262.75	2.32	SF(Lo)
10900.00	11063.37	90.00	266.89	7141.00	106.25	32.37	106.75	461.48	257.93	2.27	SF(Lo)
11000.00	11163.37	90.00	266.89	7141.00	108.96	33.08	106.74	461.84	253.10	2.21	SF(Lo)
11100.00	11263.37	90.00	266.89	7141.00	111.66	33.78	106.72	462.19	248.26	2.16	SF(Lo)
11200.00	11363.37	90.00	266.89	7141.00	114.38	34.49	106.71	462.55	243.42	2.11	SF(Lo)
11300.00	11463.36	90.00	266.89	7141.00	117.09	35.20	106.70	462.90	238.56	2.06	SF(Lo)
11400.00	11563.36	90.00	266.89	7141.00	119.81	35.91	106.68	463.26	233.70	2.02	SF(Lo)
11500.00	11663.36	90.00	266.89	7141.00	122.54	36.63	106.67	463.61	228.83	1.97	SF(Lo)
11600.00	11763.36	90.00	266.89	7141.00	125.27	37.34	106.66	463.97	223.96	1.93	SF(Lo)
11700.00	11863.36	90.00	266.89	7141.00	128.00	38.05	106.65	464.32	219.08	1.89	SF(Lo)
11800.00	11963.36	90.00	266.89	7141.00	130.73	38.77	106.63	464.68	214.19	1.86	SF(Lo)
11900.00	12063.36	90.00	266.89	7141.00	133.47	39.48	106.62	465.03	209.29	1.82	SF(Lo)
12000.00	12163.36	90.00	266.89	7141.00	136.21	40.20	106.61	465.39	204.39	1.78	SF(Lo)
12100.00	12263.36	90.00	266.89	7141.00	138.95	40.92	106.59	465.74	199.48	1.75	SF(Lo)
12200.00	12363.36	90.00	266.89	7141.00	141.69	41.63	106.58	466.10	194.56	1.72	SF(Lo)
12300.00	12463.36	90.00	266.89	7141.00	144.44	42.35	106.57	466.45	189.65	1.69	SF(Lo)
12400.00	12563.36	90.00	266.89	7141.00	147.18	43.07	106.55	466.81	184.72	1.65	SF(Lo)
12500.00	12663.36	90.00	266.89	7141.00	149.93	43.79	106.54	467.16	179.80	1.63	SF(Lo)
12600.00	12763.36	90.00	266.89	7141.00	152.68	44.51	106.53	467.52	174.87	1.60	SF(Lo)
12700.00	12863.36	90.00	266.89	7141.00	155.44	45.23	106.52	467.87	169.93	1.57	SF(Lo)
12800.00	12963.35	90.00	266.89	7141.00	158.19	45.95	106.50	468.23	165.00	1.54	SF(Lo)
12900.00	13063.35	90.00	266.89	7141.00	160.95	46.67	106.49	468.58	160.05	1.52	SF(Lo)
13000.00	13163.35	90.00	266.89	7141.00	163.70	47.39	106.48	468.94	155.11	1.49	SF(Med)
13100.00	13263.35	90.00	266.89	7141.00	166.46	48.11	106.46	469.29	150.16	1.47	SF(Med)
13200.00	13363.35	90.00	266.89	7141.00	169.22	48.83	106.45	469.65	145.21	1.45	SF(Med)
13300.00	13463.35	90.00	266.89	7141.00	171.99	49.55	106.44	470.00	140.25	1.43	SF(Med)
13400.00	13563.35	90.00	266.89	7141.00	174.75	50.27	106.43	470.36	135.29	1.40	SF(Med)
13500.00	13663.35	90.00	266.89	7141.00	177.51	51.00	106.41	470.71	130.32	1.38	SF(Med)
13600.00	13763.35	90.00	266.89	7141.00	180.28	51.72	106.40	471.07	125.35	1.36	SF(Med)
13700.00	13863.35	90.00	266.89	7141.00	183.04	52.44	106.39	471.43	120.38	1.34	SF(Med)
13800.00	13963.35	90.00	266.89	7141.00	185.81	53.17	106.37	471.78	115.41	1.32	SF(Med)
13900.00	14063.35	90.00	266.89	7141.00	188.58	53.89	106.36	472.14	110.43	1.31	SF(Med)
14000.00	14163.35	90.00	266.89	7141.00	191.35	54.61	106.35	472.49	105.45	1.29	SF(Med)
14100.00	14263.35	90.00	266.89	7141.00	194.12	55.34	106.34	472.85	100.47	1.27	SF(Med)
14200.00	14363.34	90.00	266.89	7141.00	196.89	56.06	106.32	473.20	95.49	1.25	SF(Med)
14300.00	14463.34	90.00	266.89	7141.00	199.66	56.79	106.31	473.56	90.50	1.24	SF(Med)
14400.00	14563.34	90.00	266.89	7141.00	202.43	57.51	106.30	473.91	85.52	1.22	SF(Med)
14500.00	14663.34	90.00	266.89	7141.00	205.20	58.24	106.29	474.27	80.53	1.20	SF(Med)
14600.00	14763.34	90.00	266.89	7141.00	207.98	58.96	106.27	474.63	75.54	1.19	SF(Med)
14700.00	14863.34	90.00	266.89	7141.00	210.75	59.69	106.26	474.98	70.54	1.17	SF(Med)
14800.00	14963.34	90.00	266.89	7141.00	213.52	60.41	106.25	475.34	65.55	1.16	SF(Med)
14900.00	15063.34	90.00	266.89	7141.00	216.30	61.14	106.24	475.69	60.55	1.15	SF(Med)
15000.00	15163.34	90.00	266.89	7141.00	219.08	61.87	106.22	476.05	55.55	1.13	SF(Med)
15100.00	15263.34	90.00	266.89	7141.00	221.85	62.59	106.21	476.40	50.55	1.12	SF(Med)
15200.00	15363.34	90.00	266.89	7141.00	224.63	63.32	106.20	476.76	45.55	1.11	SF(Med)
15300.00	15463.34	90.00	266.89	7141.00	227.41	64.04	106.19	477.12	40.55	1.09	SF(Med)
15400.00	15563.34	90.00	266.89	7141.00	230.18	64.77	106.17	477.47	35.54	1.08	SF(Med)
15500.00	15644.54	90.00	266.89	7141.00	232.44	65.36	106.16	478.20	31.76	1.07	SF(Med)
15501.26	15644.54	90.00	266.89	7141.00	232.44	65.36	106.16	478.25	31.82	1.07	SF(Med)

5D Anti-Collision Report

Secondary Well: Goetzel 32N-30B-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	0.00	0.00	0.00	359.55	20.04	19.30	27.32	CC (Med)
100.00	100.00	0.00	0.00	100.00	0.11	0.11	359.55	20.04	19.08	21.00	CC (Med)
200.00	200.00	0.00	0.00	200.00	0.34	0.34	359.55	20.04	18.63	14.28	CC (Med)
300.00	300.00	0.00	0.00	300.00	0.56	0.56	359.55	20.04	18.18	10.81	CC (Med)
400.00	400.00	0.00	0.00	400.00	0.79	0.79	359.55	20.04	17.73	8.70	CC (Med)
500.00	500.00	0.00	0.00	500.00	1.01	1.01	359.55	20.04	17.28	7.28	CC (Med)
600.00	600.00	0.00	0.00	600.00	1.24	1.24	359.55	20.04	16.83	6.26	CC (Med)
700.00	700.00	0.00	0.00	700.00	1.46	1.46	359.55	20.04	16.39	5.49	CC (Med)
800.00	800.00	0.00	0.00	800.00	1.69	1.69	359.55	20.04	15.94	4.89	CC (Med)
900.00	900.00	0.00	0.00	900.00	1.91	1.91	359.55	20.04	15.49	4.40	CC (Med)
1000.00	1000.00	0.00	0.00	1000.00	2.14	2.14	359.55	20.04	15.04	4.01	CC (Med)
1100.00	1100.00	0.00	0.00	1100.00	2.36	2.36	359.55	20.04	14.59	3.68	CC (Med)
1200.00	1200.00	0.00	0.00	1200.00	2.58	2.58	359.55	20.04	14.14	3.40	CC (Med)
1300.00	1300.00	0.00	0.00	1300.00	2.81	2.81	359.55	20.04	13.69	3.16	CC (Med)
1400.00	1400.00	0.00	0.00	1400.00	3.03	3.03	359.55	20.04	13.24	2.95	CC (Med)
1500.00	1500.00	0.00	0.00	1500.00	3.26	3.26	359.55	20.04	12.79	2.76	CC (Med)
1600.00	1600.00	0.00	0.00	1600.00	3.48	3.48	359.55	20.04	12.34	2.60	CC (Med)
1700.00	1700.00	0.00	0.00	1700.00	3.71	3.71	359.55	20.04	11.89	2.46	SF(Lo); CC (Med)
1800.00	1799.98	0.00	0.00	1799.98	3.93	3.93	261.86	20.21	11.64	2.36	SF(Lo); CC (Med)
1900.00	1899.84	0.00	0.00	1899.84	4.16	4.16	248.01	21.58	12.58	2.40	SF(Lo); CC (Med)
2000.00	1999.45	0.00	0.00	1999.45	4.38	4.38	230.11	26.13	16.71	2.77	CC (Med)
2100.00	2099.57	1.99	85.04	2099.55	4.59	4.59	216.71	33.98	24.15	3.46	CC (Lo)
2200.00	2200.05	4.00	85.04	2199.88	4.80	4.79	209.14	43.21	32.99	4.23	CC (Lo)
2300.00	2300.89	6.02	85.04	2300.33	5.02	4.98	204.74	53.13	42.51	5.00	CC (Lo)
2400.00	2402.08	8.04	85.04	2400.77	5.25	5.18	202.15	63.44	52.38	5.74	CC (Lo)
2500.00	2503.64	10.07	85.04	2501.05	5.50	5.37	200.64	73.98	62.49	6.44	
2600.00	2605.61	12.11	85.04	2601.11	5.78	5.56	199.92	84.20	72.27	7.06	
2700.00	2708.13	14.16	85.04	2700.94	6.10	5.76	200.28	91.61	79.20	7.38	
2800.00	2810.98	16.22	85.04	2800.19	6.48	5.95	201.62	95.88	82.96	7.42	
2900.00	2913.90	18.28	85.04	2898.48	6.91	6.15	203.94	97.11	83.60	7.19	
3000.00	3014.43	18.74	85.04	2993.71	7.38	6.38	206.98	96.41	82.19	6.78	
3100.00	3114.29	18.74	85.04	3088.28	7.89	6.63	210.06	95.91	80.90	6.39	
3200.00	3214.16	18.74	85.04	3182.86	8.42	6.88	213.16	95.69	79.80	6.02	
3300.00	3314.02	18.74	85.04	3277.43	8.97	7.14	216.27	95.75	78.89	5.68	
3400.00	3413.89	18.74	85.04	3372.00	9.54	7.40	219.37	96.10	78.17	5.36	
3500.00	3513.75	18.74	85.04	3466.57	10.12	7.67	222.43	96.72	77.64	5.07	
3600.00	3613.62	18.74	85.04	3561.15	10.71	7.94	225.45	97.62	77.32	4.81	
3700.00	3713.48	18.74	85.04	3655.72	11.32	8.21	228.41	98.79	77.19	4.57	
3800.00	3813.35	18.74	85.04	3750.29	11.93	8.49	231.29	100.21	77.29	4.37	
3900.00	3913.21	18.74	85.04	3844.87	12.55	8.77	234.08	101.87	77.58	4.19	
4000.00	4013.08	18.74	85.04	3939.44	13.18	9.05	236.77	103.77	78.10	4.04	
4100.00	4112.94	18.74	85.04	4034.01	13.81	9.34	239.37	105.90	78.79	3.91	
4200.00	4212.80	18.74	85.04	4128.59	14.45	9.63	241.85	108.23	79.71	3.80	
4300.00	4312.67	18.74	85.04	4223.16	15.09	9.92	244.23	110.76	80.79	3.70	
4400.00	4412.53	18.74	85.04	4317.73	15.73	10.21	246.50	113.47	82.06	3.61	
4500.00	4512.40	18.74	85.04	4412.31	16.38	10.50	248.66	116.34	83.53	3.55	
4600.00	4612.26	18.74	85.04	4506.88	17.03	10.80	250.71	119.38	85.12	3.48	
4700.00	4712.13	18.74	85.04	4601.45	17.68	11.09	252.66	122.56	86.89	3.44	
4800.00	4811.99	18.74	85.04	4696.02	18.34	11.39	254.51	125.88	88.82	3.40	
4900.00	4911.86	18.74	85.04	4790.60	19.00	11.69	256.26	129.32	90.89	3.37	
5000.00	5011.72	18.74	85.04	4885.17	19.65	11.99	257.92	132.88	93.05	3.34	
5100.00	5111.59	18.74	85.04	4979.74	20.32	12.29	259.49	136.54	95.35	3.32	
5200.00	5211.45	18.74	85.04	5074.32	20.98	12.59	260.98	140.30	97.77	3.30	
5300.00	5311.32	18.74	85.04	5168.89	21.64	12.89	262.39	144.14	100.30	3.29	
5400.00	5411.18	18.74	85.04	5263.46	22.31	13.19	263.73	148.07	102.91	3.28	
5500.00	5511.04	18.74	85.04	5358.04	22.97	13.50	265.00	152.08	105.59	3.27	

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
5600.00	5610.91	18.74	85.04	5452.61	23.64	13.80	266.20	156.16	108.36	3.27	
5700.00	5710.77	18.74	85.04	5547.18	24.31	14.11	267.34	160.30	111.22	3.27	
5800.00	5810.64	18.74	85.04	5641.75	24.98	14.41	268.42	164.51	114.15	3.27	
5900.00	5910.50	18.74	85.04	5736.33	25.65	14.72	269.45	168.77	117.15	3.27	
6000.00	6010.37	18.74	85.04	5830.90	26.32	15.03	270.42	173.08	120.22	3.27	
6100.00	6110.23	18.74	85.04	5925.47	26.99	15.34	271.35	177.43	123.35	3.28	
6200.00	6210.29	18.29	84.99	6020.24	27.65	15.65	272.23	181.83	126.54	3.29	
6300.00	6313.56	10.03	83.52	6120.29	28.13	15.93	269.33	185.39	128.95	3.28	
6400.00	6415.92	1.91	69.64	6222.00	28.36	15.88	256.14	188.89	131.84	3.31	
6500.00	6517.34	6.31	271.76	6323.26	28.41	15.52	128.26	192.66	135.43	3.37	
6600.00	6617.83	14.34	268.88	6422.04	28.32	14.89	100.20	196.63	139.57	3.45	
6700.00	6717.41	22.30	268.06	6516.50	28.14	14.03	93.82	200.72	144.09	3.54	
6800.00	6816.12	30.19	267.65	6604.96	27.92	12.99	90.10	204.82	148.75	3.65	
6900.00	6914.00	38.02	267.41	6685.94	27.68	11.85	87.31	208.83	153.38	3.77	
7000.00	7011.12	45.79	267.23	6758.16	27.50	10.72	85.04	212.64	157.76	3.87	
7100.00	7107.54	53.50	267.10	6820.55	27.43	9.74	83.14	216.13	161.66	3.97	
7200.00	7203.34	61.17	267.00	6872.22	27.50	9.06	81.56	219.22	164.86	4.03	
7300.00	7298.61	68.79	266.91	6912.48	27.76	8.85	80.26	221.79	167.14	4.06	
7400.00	7393.43	76.37	266.82	6940.84	28.24	9.18	79.22	223.78	168.32	4.03	
7500.00	7487.88	83.93	266.75	6956.98	28.91	9.99	78.45	225.13	168.42	3.97	
7600.00	7583.20	90.00	266.69	6961.00	29.76	10.98	77.98	225.73	167.39	3.87	
7700.00	7683.20	90.00	266.69	6961.00	30.87	11.46	77.98	225.75	165.28	3.73	
7800.00	7783.20	90.00	266.69	6961.00	32.18	11.97	77.98	225.76	162.78	3.58	
7900.00	7883.20	90.00	266.69	6961.00	33.66	12.51	77.98	225.78	159.92	3.43	
8000.00	7983.20	90.00	266.69	6961.00	35.31	13.06	77.99	225.79	156.74	3.27	
8100.00	8083.20	90.00	266.69	6961.00	37.10	13.63	77.99	225.81	153.28	3.11	
8200.00	8183.20	90.00	266.69	6961.00	39.00	14.21	77.99	225.82	149.59	2.96	
8300.00	8283.20	90.00	266.69	6961.00	41.01	14.81	77.99	225.84	145.69	2.82	
8400.00	8383.20	90.00	266.69	6961.00	43.10	15.42	77.99	225.85	141.62	2.68	
8500.00	8483.20	90.00	266.69	6961.00	45.27	16.04	77.99	225.87	137.39	2.55	
8600.00	8583.20	90.00	266.69	6961.00	47.51	16.66	77.99	225.88	133.04	2.43	SF(Lo)
8700.00	8683.20	90.00	266.69	6961.00	49.80	17.30	77.99	225.90	128.57	2.32	SF(Lo)
8800.00	8783.20	90.00	266.69	6961.00	52.15	17.95	77.99	225.91	124.00	2.22	SF(Lo)
8900.00	8883.20	90.00	266.69	6961.00	54.53	18.60	77.99	225.92	119.35	2.12	SF(Lo)
9000.00	8983.20	90.00	266.69	6961.00	56.96	19.25	77.99	225.94	114.62	2.03	SF(Lo)
9100.00	9083.20	90.00	266.69	6961.00	59.41	19.92	77.99	225.95	109.83	1.95	SF(Lo)
9200.00	9183.20	90.00	266.69	6961.00	61.90	20.58	78.00	225.97	104.98	1.87	SF(Lo)
9300.00	9283.20	90.00	266.69	6961.00	64.41	21.25	78.00	225.98	100.08	1.79	SF(Lo)
9400.00	9383.20	90.00	266.69	6961.00	66.94	21.93	78.00	226.00	95.14	1.73	SF(Lo)
9500.00	9483.20	90.00	266.69	6961.00	69.50	22.61	78.00	226.01	90.15	1.66	SF(Lo)
9600.00	9583.20	90.00	266.69	6961.00	72.07	23.29	78.00	226.03	85.13	1.60	SF(Lo)
9700.00	9683.20	90.00	266.69	6961.00	74.66	23.98	78.00	226.04	80.08	1.55	SF(Lo)
9800.00	9783.20	90.00	266.69	6961.00	77.26	24.66	78.00	226.06	75.00	1.50	SF(Med)
9900.00	9883.20	90.00	266.69	6961.00	79.88	25.35	78.00	226.07	69.89	1.45	SF(Med)
10000.00	9983.20	90.00	266.69	6961.00	82.51	26.05	78.00	226.09	64.76	1.40	SF(Med)
10100.00	10083.20	90.00	266.69	6961.00	85.15	26.74	78.00	226.10	59.61	1.36	SF(Med)
10200.00	10183.20	90.00	266.69	6961.00	87.79	27.44	78.00	226.12	54.44	1.32	SF(Med)
10300.00	10283.20	90.00	266.69	6961.00	90.45	28.14	78.00	226.13	49.25	1.28	SF(Med)
10400.00	10383.20	90.00	266.69	6961.00	93.12	28.84	78.00	226.14	44.04	1.24	SF(Med)
10500.00	10483.20	90.00	266.69	6961.00	95.79	29.54	78.01	226.16	38.82	1.21	SF(Med)
10600.00	10583.20	90.00	266.69	6961.00	98.47	30.24	78.01	226.17	33.59	1.17	SF(Med)
10700.00	10683.20	90.00	266.69	6961.00	101.16	30.95	78.01	226.19	28.34	1.14	SF(Med)
10800.00	10783.20	90.00	266.69	6961.00	103.85	31.66	78.01	226.20	23.09	1.11	SF(Med)
10900.00	10883.20	90.00	266.69	6961.00	106.55	32.36	78.01	226.22	17.82	1.09	SF(Med)
11000.00	10983.20	90.00	266.69	6961.00	109.25	33.07	78.01	226.23	12.54	1.06	SF(Med)
11100.00	11083.20	90.00	266.69	6961.00	111.96	33.78	78.01	226.25	7.25	1.03	SF(Med)
11200.00	11183.20	90.00	266.69	6961.00	114.67	34.49	78.01	226.26	1.96	1.01	SF(Med)
11300.00	11283.20	90.00	266.69	6961.00	117.39	35.20	78.01	226.28	-3.34	0.99	SF(Hi)

5D Anti-Collision Report

Secondary Well: Goetzel 32N-30B-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
11400.00	11383.20	90.00	266.69	6961.00	120.11	35.92	78.01	226.29	-8.65	0.96	SF(Hi)
11500.00	11483.20	90.00	266.69	6961.00	122.83	36.63	78.01	226.31	-13.97	0.94	SF(Hi)
11600.00	11583.20	90.00	266.69	6961.00	125.56	37.34	78.01	226.32	-19.30	0.92	SF(Hi)
11700.00	11683.20	90.00	266.69	6961.00	128.29	38.06	78.01	226.34	-24.63	0.90	SF(Hi)
11800.00	11783.20	90.00	266.69	6961.00	131.02	38.78	78.02	226.35	-29.96	0.88	SF(Hi)
11900.00	11883.20	90.00	266.69	6961.00	133.76	39.49	78.02	226.36	-35.30	0.87	SF(Hi)
12000.00	11983.20	90.00	266.69	6961.00	136.49	40.21	78.02	226.38	-40.65	0.85	SF(Hi)
12100.00	12083.20	90.00	266.69	6961.00	139.23	40.93	78.02	226.39	-46.00	0.83	SF(Hi)
12200.00	12183.20	90.00	266.69	6961.00	141.98	41.64	78.02	226.41	-51.35	0.82	SF(Hi)
12300.00	12283.20	90.00	266.69	6961.00	144.72	42.36	78.02	226.42	-56.71	0.80	SF(Hi)
12400.00	12383.20	90.00	266.69	6961.00	147.47	43.08	78.02	226.44	-62.08	0.78	SF(Hi)
12500.00	12483.20	90.00	266.69	6961.00	150.22	43.80	78.02	226.45	-67.44	0.77	SF(Hi)
12600.00	12583.20	90.00	266.69	6961.00	152.97	44.52	78.02	226.47	-72.81	0.76	SF(Hi)
12700.00	12683.20	90.00	266.69	6961.00	155.72	45.24	78.02	226.48	-78.19	0.74	SF(Hi)
12800.00	12783.20	90.00	266.69	6961.00	158.47	45.96	78.02	226.50	-83.56	0.73	SF(Hi)
12900.00	12883.20	90.00	266.69	6961.00	161.23	46.68	78.02	226.51	-88.94	0.72	SF(Hi)
13000.00	12983.20	90.00	266.69	6961.00	163.98	47.40	78.03	226.53	-94.32	0.71	SF(Hi)
13100.00	13083.20	90.00	266.69	6961.00	166.74	48.13	78.03	226.54	-99.71	0.69	SF(Hi)
13200.00	13183.20	90.00	266.69	6961.00	169.50	48.85	78.03	226.56	-105.10	0.68	SF(Hi)
13300.00	13283.20	90.00	266.69	6961.00	172.26	49.57	78.03	226.57	-110.49	0.67	SF(Hi)
13400.00	13383.20	90.00	266.69	6961.00	175.02	50.29	78.03	226.58	-115.88	0.66	SF(Hi)
13500.00	13483.20	90.00	266.69	6961.00	177.79	51.02	78.03	226.60	-121.28	0.65	SF(Hi)
13600.00	13583.20	90.00	266.69	6961.00	180.55	51.74	78.03	226.61	-126.67	0.64	SF(Hi)
13700.00	13683.20	90.00	266.69	6961.00	183.32	52.46	78.03	226.63	-132.07	0.63	SF(Hi)
13800.00	13783.20	90.00	266.69	6961.00	186.08	53.19	78.03	226.64	-137.47	0.62	SF(Hi)
13900.00	13883.20	90.00	266.69	6961.00	188.85	53.91	78.03	226.66	-142.87	0.61	SF(Hi)
14000.00	13983.20	90.00	266.69	6961.00	191.62	54.64	78.03	226.67	-148.28	0.60	SF(Hi)
14100.00	14083.20	90.00	266.69	6961.00	194.38	55.36	78.03	226.69	-153.69	0.60	SF(Hi)
14200.00	14183.20	90.00	266.69	6961.00	197.15	56.09	78.03	226.70	-159.09	0.59	SF(Hi)
14300.00	14283.20	90.00	266.69	6961.00	199.92	56.81	78.04	226.72	-164.50	0.58	SF(Hi)
14400.00	14383.20	90.00	266.69	6961.00	202.70	57.54	78.04	226.73	-169.91	0.57	SF(Hi)
14500.00	14483.20	90.00	266.69	6961.00	205.47	58.26	78.04	226.75	-175.33	0.56	SF(Hi)
14600.00	14583.20	90.00	266.69	6961.00	208.24	58.99	78.04	226.76	-180.74	0.56	SF(Hi)
14700.00	14683.20	90.00	266.69	6961.00	211.01	59.72	78.04	226.78	-186.16	0.55	SF(Hi)
14800.00	14783.20	90.00	266.69	6961.00	213.79	60.44	78.04	226.79	-191.57	0.54	SF(Hi)
14900.00	14883.20	90.00	266.69	6961.00	216.56	61.17	78.04	226.80	-196.99	0.54	SF(Hi)
15000.00	14983.20	90.00	266.69	6961.00	219.34	61.89	78.04	226.82	-202.41	0.53	SF(Hi)
15100.00	15083.20	90.00	266.69	6961.00	222.11	62.62	78.04	226.83	-207.83	0.52	SF(Hi)
15200.00	15183.20	90.00	266.69	6961.00	224.89	63.35	78.04	226.85	-213.25	0.52	SF(Hi)
15300.00	15283.20	90.00	266.69	6961.00	227.66	64.07	78.04	226.86	-218.67	0.51	SF(Hi)
15400.00	15383.20	90.00	266.69	6961.00	230.44	64.80	78.04	226.88	-224.09	0.50	SF(Hi)
15500.00	15473.86	90.00	266.69	6961.00	232.96	65.46	78.04	227.09	-228.66	0.50	SF(Hi)
15501.26	15473.86	90.00	266.69	6961.00	232.96	65.46	78.04	227.14	-228.53	0.50	SF(Hi)
Secondary Well: Goetzel 12N-30A-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	0.00	0.00	0.00	180.36	19.67	18.94	26.83	CC (Med)
100.00	100.00	0.00	0.00	100.00	0.11	0.11	180.36	19.67	18.72	20.62	CC (Med)
200.00	200.00	0.00	0.00	200.00	0.34	0.34	180.36	19.67	18.27	14.02	CC (Med)
300.00	300.00	0.00	0.00	300.00	0.56	0.56	180.36	19.67	17.82	10.62	CC (Med)
400.00	400.00	0.00	0.00	400.00	0.79	0.79	180.36	19.67	17.37	8.54	CC (Med)
500.00	500.00	0.00	0.00	500.00	1.01	1.01	180.36	19.67	16.92	7.15	CC (Med)
600.00	600.00	0.00	0.00	600.00	1.24	1.24	180.36	19.67	16.47	6.14	CC (Med)
700.00	700.00	0.00	0.00	700.00	1.46	1.46	180.36	19.67	16.02	5.39	CC (Med)
800.00	800.00	0.00	0.00	800.00	1.69	1.69	180.36	19.67	15.57	4.80	CC (Med)
900.00	900.00	0.00	0.00	900.00	1.91	1.91	180.36	19.67	15.12	4.32	CC (Med)
1000.00	1000.00	0.00	0.00	1000.00	2.14	2.14	180.36	19.67	14.67	3.93	CC (Med)

5D Anti-Collision Report

Secondary Well: Goetzel 12N-30A-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
1100.00	1100.00	0.00	0.00	1100.00	2.36	2.36	180.36	19.67	14.22	3.61	CC (Med)
1200.00	1200.00	0.00	0.00	1200.00	2.58	2.58	180.36	19.67	13.78	3.34	CC (Med)
1300.00	1300.00	0.00	0.00	1300.00	2.81	2.81	180.36	19.67	13.33	3.10	CC (Med)
1400.00	1400.00	0.00	0.00	1400.00	3.03	3.03	180.36	19.67	12.88	2.89	CC (Med)
1500.00	1499.93	1.00	100.92	1499.93	3.25	3.25	179.12	19.76	12.53	2.73	CC (Med)
1600.00	1599.68	2.99	100.92	1599.61	3.45	3.44	169.69	20.75	13.11	2.71	CC (Med)
1700.00	1699.06	4.98	100.92	1698.74	3.65	3.63	154.20	24.16	16.11	3.00	CC (Med)
1800.00	1798.03	6.96	100.92	1797.17	3.87	3.82	48.48	30.33	21.88	3.59	CC (Med)
1900.00	1896.70	8.93	100.92	1894.89	4.10	4.01	40.77	37.78	28.93	4.27	CC (Lo)
2000.00	1995.08	10.90	100.92	1991.79	4.37	4.21	36.19	45.88	36.64	4.96	CC (Lo)
2100.00	2093.15	12.86	100.92	2087.76	4.67	4.40	33.46	54.38	44.73	5.64	CC (Lo)
2200.00	2190.93	14.82	100.92	2182.70	5.02	4.60	31.86	63.12	53.07	6.28	CC (Lo)
2300.00	2288.42	16.77	100.92	2276.50	5.43	4.80	31.01	72.03	61.56	6.88	
2400.00	2387.99	16.88	100.92	2371.78	5.88	5.04	31.07	79.71	68.72	7.25	
2500.00	2487.85	16.88	100.92	2467.34	6.37	5.28	32.37	84.43	72.86	7.30	
2600.00	2587.77	16.88	100.92	2562.95	6.88	5.53	34.65	86.74	74.51	7.09	
2700.00	2687.68	16.88	100.92	2658.56	7.41	5.79	36.95	88.89	75.95	6.87	
2800.00	2787.60	16.88	100.92	2754.16	7.95	6.05	39.15	91.18	77.47	6.65	
2900.00	2887.51	16.88	100.92	2849.77	8.51	6.32	41.23	93.59	79.06	6.44	
3000.00	2987.42	16.88	100.92	2945.38	9.07	6.59	43.20	96.13	80.72	6.24	
3100.00	3087.34	16.88	100.92	3040.99	9.64	6.86	45.08	98.77	82.43	6.05	
3200.00	3187.25	16.88	100.92	3136.60	10.22	7.13	46.85	101.51	84.20	5.86	
3300.00	3287.17	16.88	100.92	3232.20	10.80	7.41	48.53	104.34	86.01	5.69	
3400.00	3387.08	16.88	100.92	3327.81	11.39	7.69	50.12	107.26	87.86	5.53	
3500.00	3487.00	16.88	100.92	3423.42	11.98	7.97	51.62	110.25	89.79	5.39	
3600.00	3586.91	16.88	100.92	3519.03	12.57	8.25	53.04	113.32	91.75	5.25	
3700.00	3686.83	16.88	100.92	3614.64	13.17	8.54	54.39	116.46	93.75	5.13	
3800.00	3786.74	16.88	100.92	3710.24	13.77	8.82	55.67	119.65	95.80	5.02	
3900.00	3886.65	16.88	100.92	3805.85	14.37	9.11	56.88	122.90	97.89	4.91	
4000.00	3986.57	16.88	100.92	3901.46	14.97	9.40	58.02	126.21	100.00	4.82	
4100.00	4086.48	16.88	100.92	3997.07	15.57	9.69	59.11	129.56	102.16	4.73	
4200.00	4186.40	16.88	100.92	4092.68	16.18	9.98	60.14	132.95	104.35	4.65	
4300.00	4286.31	16.88	100.92	4188.28	16.79	10.27	61.12	136.39	106.59	4.58	
4400.00	4386.23	16.88	100.92	4283.89	17.40	10.56	62.06	139.86	108.84	4.51	
4500.00	4486.14	16.88	100.92	4379.50	18.01	10.85	62.94	143.37	111.12	4.44	
4600.00	4586.05	16.88	100.92	4475.11	18.62	11.14	63.79	146.91	113.42	4.39	
4700.00	4685.97	16.88	100.92	4570.72	19.23	11.44	64.59	150.49	115.75	4.33	
4800.00	4785.88	16.88	100.92	4666.32	19.84	11.73	65.36	154.09	118.12	4.28	
4900.00	4885.80	16.88	100.92	4761.93	20.45	12.03	66.09	157.71	120.51	4.24	
5000.00	4985.71	16.88	100.92	4857.54	21.07	12.32	66.79	161.36	122.93	4.20	
5100.00	5085.63	16.88	100.92	4953.15	21.68	12.62	67.46	165.04	125.35	4.16	
5200.00	5185.54	16.88	100.92	5048.76	22.30	12.91	68.10	168.74	127.78	4.12	
5300.00	5285.46	16.88	100.92	5144.36	22.91	13.21	68.71	172.45	130.24	4.09	
5400.00	5385.37	16.88	100.92	5239.97	23.53	13.51	69.29	176.19	132.71	4.05	
5500.00	5485.28	16.88	100.92	5335.58	24.14	13.80	69.85	179.94	135.20	4.02	
5600.00	5585.20	16.88	100.92	5431.19	24.76	14.10	70.39	183.71	137.71	3.99	
5700.00	5685.11	16.88	100.92	5526.80	25.38	14.40	70.91	187.49	140.24	3.97	
5800.00	5785.03	16.88	100.92	5622.40	25.99	14.70	71.40	191.29	142.78	3.94	
5900.00	5884.94	16.88	100.92	5718.01	26.61	14.99	71.88	195.10	145.34	3.92	
6000.00	5984.86	16.88	100.92	5813.62	27.23	15.29	72.34	198.93	147.91	3.90	
6100.00	6084.77	16.88	100.92	5909.23	27.85	15.59	72.78	202.77	150.50	3.88	
6200.00	6189.25	9.30	113.23	6010.87	28.23	15.82	75.15	205.52	151.69	3.82	
6300.00	6289.94	4.11	173.10	6110.93	28.38	15.75	79.51	207.56	151.91	3.73	
6400.00	6387.07	8.52	238.64	6207.55	28.34	15.41	74.99	211.77	155.09	3.74	
6500.00	6481.41	15.56	252.31	6299.77	28.16	14.84	315.37	218.14	161.37	3.84	
6600.00	6573.27	22.72	257.38	6386.51	27.89	14.06	294.95	226.16	170.00	4.03	
6700.00	6662.99	29.80	260.05	6466.91	27.59	13.15	295.50	235.21	180.33	4.29	
6800.00	6750.84	36.77	261.74	6540.31	27.28	12.14	297.93	244.71	191.41	4.59	

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
6900.00	6837.12	43.63	262.93	6606.17	27.01	11.11	300.51	254.09	202.41	4.92	
7000.00	6922.07	50.40	263.84	6664.05	26.82	10.14	302.84	262.87	212.85	5.25	
7100.00	7005.93	57.08	264.58	6713.63	26.74	9.34	304.80	270.67	222.16	5.58	
7200.00	7088.92	63.69	265.21	6754.62	26.81	8.83	306.37	277.14	229.84	5.86	
7300.00	7171.24	70.26	265.77	6786.80	27.06	8.70	307.54	282.06	235.45	6.05	
7400.00	7253.10	76.79	266.28	6810.00	27.47	8.98	308.32	285.23	238.76	6.14	
7500.00	7334.67	83.30	266.76	6824.09	28.03	9.65	308.72	286.55	239.57	6.10	
7600.00	7416.15	89.80	267.23	6829.00	28.72	10.61	308.75	285.98	237.97	5.96	
7700.00	7515.58	90.00	267.24	6829.00	29.78	11.11	308.88	285.21	235.49	5.74	
7800.00	7615.58	90.00	267.24	6829.00	31.03	11.61	309.00	284.44	232.70	5.50	
7900.00	7715.57	90.00	267.24	6829.00	32.48	12.13	309.13	283.68	229.63	5.25	
8000.00	7815.57	90.00	267.24	6829.00	34.10	12.68	309.25	282.91	226.32	5.00	
8100.00	7915.56	90.00	267.24	6829.00	35.86	13.25	309.38	282.15	222.81	4.76	
8200.00	8015.56	90.00	267.24	6829.00	37.75	13.83	309.51	281.39	219.13	4.52	
8300.00	8115.55	90.00	267.24	6829.00	39.75	14.42	309.63	280.63	215.31	4.30	
8400.00	8215.55	90.00	267.24	6829.00	41.84	15.03	309.76	279.87	211.37	4.09	
8500.00	8315.54	90.00	267.24	6829.00	44.01	15.65	309.89	279.12	207.34	3.89	
8600.00	8415.54	90.00	267.24	6829.00	46.25	16.28	310.02	278.36	203.22	3.70	
8700.00	8515.53	90.00	267.24	6829.00	48.54	16.92	310.15	277.61	199.04	3.53	
8800.00	8615.53	90.00	267.24	6829.00	50.89	17.56	310.28	276.86	194.81	3.37	
8900.00	8715.52	90.00	267.24	6829.00	53.28	18.21	310.41	276.11	190.54	3.23	
9000.00	8815.52	90.00	267.24	6829.00	55.71	18.87	310.55	275.36	186.23	3.09	
9100.00	8915.51	90.00	267.24	6829.00	58.17	19.53	310.68	274.61	181.89	2.96	
9200.00	9015.51	90.00	267.24	6829.00	60.66	20.20	310.82	273.87	177.53	2.84	
9300.00	9115.50	90.00	267.24	6829.00	63.18	20.87	310.95	273.12	173.13	2.73	
9400.00	9215.50	90.00	267.24	6829.00	65.72	21.54	311.09	272.38	168.68	2.63	
9500.00	9315.49	90.00	267.24	6829.00	68.28	22.22	311.22	271.64	164.17	2.53	
9600.00	9415.49	90.00	267.24	6829.00	70.85	22.91	311.36	270.90	159.64	2.43	SF(Lo)
9700.00	9515.48	90.00	267.24	6829.00	73.45	23.59	311.50	270.16	155.11	2.35	SF(Lo)
9800.00	9615.48	90.00	267.24	6829.00	76.06	24.28	311.64	269.42	150.58	2.27	SF(Lo)
9900.00	9715.47	90.00	267.24	6829.00	78.68	24.97	311.78	268.69	146.03	2.19	SF(Lo)
10000.00	9815.47	90.00	267.24	6829.00	81.32	25.67	311.92	267.96	141.50	2.12	SF(Lo)
10100.00	9915.46	90.00	267.24	6829.00	83.96	26.36	312.06	267.23	136.96	2.05	SF(Lo)
10200.00	10015.46	90.00	267.24	6829.00	86.62	27.06	312.20	266.49	132.43	1.99	SF(Lo)
10300.00	10115.45	90.00	267.24	6829.00	89.28	27.76	312.34	265.77	127.91	1.93	SF(Lo)
10400.00	10215.45	90.00	267.24	6829.00	91.95	28.46	312.48	265.04	123.40	1.87	SF(Lo)
10500.00	10315.44	90.00	267.24	6829.00	94.63	29.16	312.63	264.31	118.90	1.82	SF(Lo)
10600.00	10415.44	90.00	267.24	6829.00	97.32	29.87	312.77	263.59	114.41	1.77	SF(Lo)
10700.00	10515.43	90.00	267.24	6829.00	100.01	30.57	312.92	262.87	109.93	1.72	SF(Lo)
10800.00	10615.43	90.00	267.24	6829.00	102.71	31.28	313.07	262.15	105.46	1.67	SF(Lo)
10900.00	10715.43	90.00	267.24	6829.00	105.41	31.99	313.21	261.43	101.01	1.63	SF(Lo)
11000.00	10815.42	90.00	267.24	6829.00	108.12	32.70	313.36	260.71	96.57	1.59	SF(Lo)
11100.00	10915.42	90.00	267.24	6829.00	110.83	33.41	313.51	260.00	92.14	1.55	SF(Lo)
11200.00	11015.41	90.00	267.24	6829.00	113.55	34.12	313.66	259.29	87.74	1.51	SF(Lo)
11300.00	11115.41	90.00	267.24	6829.00	116.27	34.83	313.81	258.58	83.34	1.48	SF(Med)
11400.00	11215.40	90.00	267.24	6829.00	119.00	35.54	313.96	257.87	78.97	1.44	SF(Med)
11500.00	11315.40	90.00	267.24	6829.00	121.72	36.26	314.11	257.16	74.61	1.41	SF(Med)
11600.00	11415.39	90.00	267.24	6829.00	124.46	36.97	314.27	256.45	70.27	1.38	SF(Med)
11700.00	11515.39	90.00	267.24	6829.00	127.19	37.69	314.42	255.75	65.95	1.35	SF(Med)
11800.00	11615.38	90.00	267.24	6829.00	129.93	38.40	314.58	255.05	61.65	1.32	SF(Med)
11900.00	11715.38	90.00	267.24	6829.00	132.67	39.12	314.73	254.35	57.36	1.29	SF(Med)
12000.00	11815.37	90.00	267.24	6829.00	135.41	39.84	314.89	253.65	53.10	1.26	SF(Med)
12100.00	11915.37	90.00	267.24	6829.00	138.16	40.55	315.05	252.95	48.86	1.24	SF(Med)
12200.00	12015.36	90.00	267.24	6829.00	140.90	41.27	315.20	252.26	44.64	1.22	SF(Med)
12300.00	12115.36	90.00	267.24	6829.00	143.65	41.99	315.36	251.56	40.44	1.19	SF(Med)
12400.00	12215.35	90.00	267.24	6829.00	146.40	42.71	315.52	250.87	36.27	1.17	SF(Med)
12500.00	12315.35	90.00	267.24	6829.00	149.16	43.43	315.68	250.19	32.11	1.15	SF(Med)
12600.00	12415.34	90.00	267.24	6829.00	151.91	44.15	315.84	249.50	27.98	1.13	SF(Med)

5D Anti-Collision Report

Secondary Well: Goetzel 12N-30A-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
12700.00	12515.34	90.00	267.24	6829.00	154.67	44.87	316.01	248.81	23.87	1.11	SF(Med)
12800.00	12615.33	90.00	267.24	6829.00	157.42	45.59	316.17	248.13	19.79	1.09	SF(Med)
12900.00	12715.33	90.00	267.24	6829.00	160.18	46.31	316.34	247.45	15.73	1.07	SF(Med)
13000.00	12815.32	90.00	267.24	6829.00	162.94	47.04	316.50	246.77	11.70	1.05	SF(Med)
13100.00	12915.32	90.00	267.24	6829.00	165.71	47.76	316.67	246.10	7.69	1.03	SF(Med)
13200.00	13015.31	90.00	267.24	6829.00	168.47	48.48	316.83	245.42	3.71	1.02	SF(Med)
13300.00	13115.31	90.00	267.24	6829.00	171.23	49.20	317.00	244.75	-0.25	1.00	SF(Hi)
13400.00	13215.30	90.00	267.24	6829.00	174.00	49.93	317.17	244.08	-4.18	0.98	SF(Hi)
13500.00	13315.30	90.00	267.24	6829.00	176.77	50.65	317.34	243.41	-8.09	0.97	SF(Hi)
13600.00	13415.29	90.00	267.24	6829.00	179.53	51.37	317.51	242.74	-11.96	0.95	SF(Hi)
13700.00	13515.29	90.00	267.24	6829.00	182.30	52.10	317.68	242.08	-15.81	0.94	SF(Hi)
13800.00	13615.28	90.00	267.24	6829.00	185.07	52.82	317.86	241.42	-19.63	0.92	SF(Hi)
13900.00	13715.28	90.00	267.24	6829.00	187.84	53.55	318.03	240.76	-23.42	0.91	SF(Hi)
14000.00	13815.28	90.00	267.24	6829.00	190.61	54.27	318.20	240.10	-27.19	0.90	SF(Hi)
14100.00	13915.27	90.00	267.24	6829.00	193.39	55.00	318.38	239.45	-30.92	0.89	SF(Hi)
14200.00	14015.27	90.00	267.24	6829.00	196.16	55.72	318.56	238.79	-34.62	0.87	SF(Hi)
14300.00	14115.26	90.00	267.24	6829.00	198.93	56.45	318.73	238.14	-38.30	0.86	SF(Hi)
14400.00	14215.26	90.00	267.24	6829.00	201.71	57.17	318.91	237.50	-41.94	0.85	SF(Hi)
14500.00	14315.25	90.00	267.24	6829.00	204.48	57.90	319.09	236.85	-45.55	0.84	SF(Hi)
14600.00	14415.25	90.00	267.24	6829.00	207.26	58.62	319.27	236.21	-49.13	0.83	SF(Hi)
14700.00	14515.24	90.00	267.24	6829.00	210.04	59.35	319.45	235.57	-52.68	0.82	SF(Hi)
14800.00	14615.24	90.00	267.24	6829.00	212.81	60.08	319.64	234.93	-56.19	0.81	SF(Hi)
14900.00	14715.23	90.00	267.24	6829.00	215.59	60.80	319.82	234.29	-59.68	0.80	SF(Hi)
15000.00	14815.23	90.00	267.24	6829.00	218.37	61.53	320.00	233.66	-63.13	0.79	SF(Hi)
15100.00	14915.22	90.00	267.24	6829.00	221.15	62.26	320.19	233.03	-66.54	0.78	SF(Hi)
15200.00	15015.22	90.00	267.24	6829.00	223.93	62.98	320.38	232.40	-69.93	0.77	SF(Hi)
15300.00	15115.21	90.00	267.24	6829.00	226.71	63.71	320.56	231.77	-73.27	0.76	SF(Hi)
15400.00	15215.21	90.00	267.24	6829.00	229.49	64.44	320.75	231.15	-76.59	0.75	SF(Hi)
15500.00	15315.20	90.00	267.24	6829.00	232.27	65.17	320.94	230.52	-79.86	0.74	SF(Hi)
15501.26	15316.46	90.00	267.24	6829.00	232.31	65.18	320.94	230.52	-79.91	0.74	SF(Hi)

Secondary Well: Goetzel 12N-30B-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	0.00	0.00	0.00	180.35	39.71	38.98	54.16	CC (Lo)
100.00	100.00	0.00	0.00	100.00	0.11	0.11	180.35	39.71	38.76	41.63	CC (Lo)
200.00	200.00	0.00	0.00	200.00	0.34	0.34	180.35	39.71	38.31	28.30	CC (Lo)
300.00	300.00	0.00	0.00	300.00	0.56	0.56	180.35	39.71	37.86	21.43	CC (Lo)
400.00	400.00	0.00	0.00	400.00	0.79	0.79	180.35	39.71	37.41	17.25	CC (Lo)
500.00	500.00	0.00	0.00	500.00	1.01	1.01	180.35	39.71	36.96	14.43	CC (Lo)
600.00	600.00	0.00	0.00	600.00	1.24	1.24	180.35	39.71	36.51	12.40	CC (Lo)
700.00	700.00	0.00	0.00	700.00	1.46	1.46	180.35	39.71	36.06	10.88	CC (Lo)
800.00	800.00	0.00	0.00	800.00	1.69	1.69	180.35	39.71	35.61	9.68	CC (Lo)
900.00	900.00	0.00	0.00	900.00	1.91	1.91	180.35	39.71	35.16	8.73	CC (Lo)
1000.00	1000.00	0.00	0.00	1000.00	2.14	2.14	180.35	39.71	34.71	7.94	CC (Lo)
1100.00	1100.00	0.00	0.00	1100.00	2.36	2.36	180.35	39.71	34.26	7.29	CC (Lo)
1200.00	1200.00	0.00	0.00	1200.00	2.58	2.58	180.35	39.71	33.81	6.73	CC (Lo)
1300.00	1300.00	0.00	0.00	1300.00	2.81	2.81	180.35	39.71	33.36	6.26	CC (Lo)
1400.00	1399.54	1.99	107.85	1399.52	3.02	3.01	178.01	40.27	33.49	5.94	CC (Lo)
1500.00	1498.85	3.98	107.85	1498.69	3.21	3.20	171.41	42.32	35.15	5.90	CC (Lo)
1600.00	1597.68	5.95	107.85	1597.14	3.42	3.39	161.98	46.83	39.22	6.16	CC (Lo)
1700.00	1695.80	7.92	107.85	1694.54	3.64	3.58	151.84	54.81	46.78	6.83	CC (Lo)
1800.00	1793.26	9.87	107.85	1790.83	3.89	3.77	50.97	65.74	57.30	7.79	
1900.00	1890.25	11.81	107.85	1886.09	4.17	3.96	45.76	78.06	69.24	8.85	
2000.00	1986.77	13.74	107.85	1980.21	4.50	4.16	42.44	91.25	82.03	9.89	
2100.00	2082.82	15.66	107.85	2073.11	4.88	4.35	40.38	105.02	95.39	10.91	
2200.00	2180.83	16.27	107.85	2167.25	5.31	4.58	39.28	118.54	108.44	11.74	
2300.00	2280.22	16.27	107.85	2262.65	5.78	4.82	39.34	129.53	118.91	12.20	

5D Anti-Collision Report

Secondary Well: Goetzel 12N-30B-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
2400.00	2379.84	16.27	107.85	2358.28	6.27	5.07	40.33	137.87	126.68	12.31	
2500.00	2479.56	16.27	107.85	2454.00	6.79	5.32	42.14	143.66	131.84	12.15	
2600.00	2579.27	16.27	107.85	2549.72	7.31	5.58	44.65	147.46	134.90	11.74	
2700.00	2678.99	16.27	107.85	2645.44	7.85	5.84	47.15	151.30	137.92	11.31	
2800.00	2778.70	16.27	107.85	2741.16	8.40	6.11	49.53	155.41	141.20	10.93	
2900.00	2878.41	16.27	107.85	2836.88	8.95	6.38	51.78	159.78	144.63	10.55	
3000.00	2978.12	16.27	107.85	2932.60	9.51	6.65	53.91	164.37	148.22	10.18	
3100.00	3077.84	16.27	107.85	3028.31	10.07	6.92	55.92	169.19	152.02	9.86	
3200.00	3177.55	16.27	107.85	3124.03	10.64	7.20	57.81	174.20	156.00	9.57	
3300.00	3277.26	16.27	107.85	3219.75	11.22	7.48	59.60	179.39	160.10	9.30	
3400.00	3376.97	16.27	107.85	3315.47	11.79	7.76	61.29	184.74	164.29	9.03	
3500.00	3476.69	16.27	107.85	3411.18	12.37	8.04	62.88	190.25	168.63	8.80	
3600.00	3576.40	16.27	107.85	3506.90	12.95	8.32	64.38	195.89	173.11	8.60	
3700.00	3676.11	16.27	107.85	3602.62	13.53	8.60	65.80	201.66	177.71	8.42	
3800.00	3775.82	16.27	107.85	3698.34	14.12	8.89	67.13	207.55	182.43	8.26	
3900.00	3875.54	16.27	107.85	3794.06	14.70	9.17	68.40	213.54	187.25	8.12	
4000.00	3975.25	16.27	107.85	3889.77	15.29	9.46	69.59	219.63	192.11	7.98	
4100.00	4074.96	16.27	107.85	3985.49	15.88	9.74	70.72	225.82	197.04	7.85	
4200.00	4174.67	16.27	107.85	4081.21	16.47	10.03	71.79	232.08	202.06	7.73	
4300.00	4274.39	16.27	107.85	4176.93	17.06	10.32	72.80	238.42	207.15	7.62	
4400.00	4374.10	16.27	107.85	4272.64	17.65	10.61	73.76	244.83	212.32	7.53	
4500.00	4473.81	16.27	107.85	4368.36	18.24	10.90	74.67	251.31	217.55	7.44	
4600.00	4573.52	16.27	107.85	4464.08	18.83	11.19	75.53	257.84	222.84	7.37	
4700.00	4673.24	16.27	107.85	4559.80	19.43	11.48	76.35	264.43	228.20	7.30	
4800.00	4772.95	16.27	107.85	4655.51	20.02	11.77	77.13	271.08	233.60	7.23	
4900.00	4872.66	16.27	107.85	4751.23	20.61	12.06	77.88	277.77	239.06	7.18	
5000.00	4972.37	16.27	107.85	4846.95	21.21	12.35	78.59	284.50	244.57	7.12	
5100.00	5072.09	16.27	107.85	4942.67	21.81	12.64	79.26	291.28	250.12	7.08	
5200.00	5171.80	16.27	107.85	5038.39	22.40	12.94	79.91	298.09	255.71	7.03	
5300.00	5271.51	16.27	107.85	5134.10	23.00	13.23	80.52	304.95	261.34	6.99	
5400.00	5371.22	16.27	107.85	5229.82	23.59	13.52	81.11	311.83	266.97	6.95	
5500.00	5470.94	16.27	107.85	5325.54	24.19	13.82	81.68	318.75	272.64	6.91	
5600.00	5570.65	16.27	107.85	5421.26	24.79	14.11	82.22	325.69	278.35	6.88	
5700.00	5670.36	16.27	107.85	5516.97	25.39	14.40	82.73	332.67	284.06	6.84	
5800.00	5770.07	16.27	107.85	5612.69	25.98	14.70	83.23	339.66	289.80	6.81	
5900.00	5869.79	16.27	107.85	5708.41	26.58	14.99	83.70	346.69	295.56	6.78	
6000.00	5969.50	16.27	107.85	5804.13	27.18	15.29	84.16	353.73	301.35	6.75	
6100.00	6069.21	16.27	107.85	5899.85	27.78	15.58	84.60	360.80	307.16	6.73	
6200.00	6168.92	16.27	107.85	5995.56	28.38	15.88	85.02	367.89	313.00	6.70	
6300.00	6267.20	12.84	114.37	6090.27	28.89	16.16	84.19	375.05	319.03	6.69	
6400.00	6363.62	7.09	145.80	6185.26	29.10	16.24	74.37	382.51	325.88	6.75	
6500.00	6459.62	7.36	210.13	6280.65	29.08	16.07	309.78	390.13	333.29	6.86	
6600.00	6555.30	13.22	239.15	6374.81	28.87	15.65	284.86	397.77	341.04	7.01	
6700.00	6650.75	20.29	249.44	6466.17	28.52	14.99	281.42	405.26	348.89	7.19	
6800.00	6746.06	27.64	254.48	6553.21	28.09	14.12	280.39	412.45	356.63	7.39	
6900.00	6841.31	35.09	257.52	6634.49	27.62	13.08	280.03	419.21	364.03	7.60	
7000.00	6936.61	42.61	259.60	6708.66	27.19	11.94	279.88	425.40	370.83	7.80	
7100.00	7032.03	50.16	261.17	6774.44	26.86	10.79	279.79	430.90	376.80	7.96	
7200.00	7127.65	57.74	262.42	6830.68	26.69	9.78	279.68	435.63	381.71	8.08	
7300.00	7223.55	65.35	263.48	6876.34	26.73	9.12	279.52	439.49	385.34	8.12	
7400.00	7319.80	73.00	264.42	6910.53	27.03	8.98	279.28	442.41	387.58	8.07	
7500.00	7416.45	80.69	265.29	6932.51	27.58	9.47	278.96	444.36	388.36	7.93	
7600.00	7513.56	88.41	266.13	6941.72	28.36	10.50	278.56	445.29	387.67	7.73	
7700.00	7613.03	90.00	266.30	6942.00	29.36	11.14	278.51	445.94	386.26	7.47	
7800.00	7713.03	90.00	266.30	6942.00	30.56	11.63	278.50	446.60	384.47	7.19	
7900.00	7813.03	90.00	266.30	6942.00	31.96	12.15	278.49	447.26	382.32	6.89	
8000.00	7913.03	90.00	266.30	6942.00	33.53	12.69	278.47	447.91	379.86	6.58	
8100.00	8013.03	90.00	266.30	6942.00	35.26	13.25	278.46	448.57	377.04	6.27	

5D Anti-Collision Report

Secondary Well: Goetzel 12N-30B-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
8200.00	8113.02	90.00	266.30	6942.00	37.11	13.82	278.45	449.23	373.95	5.97	
8300.00	8213.02	90.00	266.30	6942.00	39.08	14.41	278.44	449.89	370.66	5.68	
8400.00	8313.02	90.00	266.30	6942.00	41.15	15.02	278.42	450.54	367.19	5.41	
8500.00	8413.02	90.00	266.30	6942.00	43.29	15.63	278.41	451.20	363.57	5.15	
8600.00	8513.01	90.00	266.30	6942.00	45.51	16.26	278.40	451.86	359.82	4.91	
8700.00	8613.01	90.00	266.30	6942.00	47.79	16.89	278.39	452.52	355.95	4.69	
8800.00	8713.01	90.00	266.30	6942.00	50.12	17.53	278.37	453.18	351.98	4.48	
8900.00	8813.01	90.00	266.30	6942.00	52.49	18.18	278.36	453.83	347.93	4.29	
9000.00	8913.01	90.00	266.30	6942.00	54.91	18.83	278.35	454.49	343.79	4.11	
9100.00	9013.00	90.00	266.30	6942.00	57.36	19.49	278.34	455.15	339.59	3.94	
9200.00	9113.00	90.00	266.30	6942.00	59.84	20.16	278.33	455.81	335.33	3.78	
9300.00	9213.00	90.00	266.30	6942.00	62.35	20.83	278.31	456.47	331.02	3.64	
9400.00	9313.00	90.00	266.30	6942.00	64.88	21.50	278.30	457.12	326.67	3.50	
9500.00	9412.99	90.00	266.30	6942.00	67.43	22.18	278.29	457.78	322.27	3.38	
9600.00	9512.99	90.00	266.30	6942.00	70.00	22.86	278.28	458.44	317.83	3.26	
9700.00	9612.99	90.00	266.30	6942.00	72.59	23.55	278.27	459.10	313.37	3.15	
9800.00	9712.99	90.00	266.30	6942.00	75.19	24.23	278.25	459.76	308.87	3.05	
9900.00	9812.99	90.00	266.30	6942.00	77.80	24.92	278.24	460.41	304.35	2.95	
10000.00	9912.98	90.00	266.30	6942.00	80.43	25.62	278.23	461.07	299.80	2.86	
10100.00	10012.98	90.00	266.30	6942.00	83.07	26.31	278.22	461.73	295.23	2.77	
10200.00	10112.98	90.00	266.30	6942.00	85.72	27.01	278.21	462.39	290.64	2.69	
10300.00	10212.98	90.00	266.30	6942.00	88.38	27.71	278.19	463.05	286.03	2.62	
10400.00	10312.97	90.00	266.30	6942.00	91.04	28.41	278.18	463.70	281.41	2.54	
10500.00	10412.97	90.00	266.30	6942.00	93.72	29.11	278.17	464.36	276.77	2.48	SF(Lo)
10600.00	10512.97	90.00	266.30	6942.00	96.40	29.81	278.16	465.02	272.12	2.41	SF(Lo)
10700.00	10612.97	90.00	266.30	6942.00	99.08	30.52	278.15	465.68	267.45	2.35	SF(Lo)
10800.00	10712.97	90.00	266.30	6942.00	101.78	31.22	278.14	466.34	262.77	2.29	SF(Lo)
10900.00	10812.96	90.00	266.30	6942.00	104.47	31.93	278.12	467.00	258.08	2.24	SF(Lo)
11000.00	10912.96	90.00	266.30	6942.00	107.18	32.64	278.11	467.65	253.39	2.18	SF(Lo)
11100.00	11012.96	90.00	266.30	6942.00	109.88	33.35	278.10	468.31	248.68	2.13	SF(Lo)
11200.00	11112.96	90.00	266.30	6942.00	112.60	34.06	278.09	468.97	243.96	2.08	SF(Lo)
11300.00	11212.95	90.00	266.30	6942.00	115.31	34.77	278.08	469.63	239.23	2.04	SF(Lo)
11400.00	11312.95	90.00	266.30	6942.00	118.03	35.48	278.07	470.29	234.50	1.99	SF(Lo)
11500.00	11412.95	90.00	266.30	6942.00	120.76	36.19	278.06	470.95	229.76	1.95	SF(Lo)
11600.00	11512.95	90.00	266.30	6942.00	123.48	36.91	278.05	471.60	225.01	1.91	SF(Lo)
11700.00	11612.95	90.00	266.30	6942.00	126.21	37.62	278.03	472.26	220.26	1.87	SF(Lo)
11800.00	11712.94	90.00	266.30	6942.00	128.94	38.34	278.02	472.92	215.50	1.84	SF(Lo)
11900.00	11812.94	90.00	266.30	6942.00	131.68	39.05	278.01	473.58	210.74	1.80	SF(Lo)
12000.00	11912.94	90.00	266.30	6942.00	134.42	39.77	278.00	474.24	205.97	1.77	SF(Lo)
12100.00	12012.94	90.00	266.30	6942.00	137.16	40.49	277.99	474.90	201.19	1.74	SF(Lo)
12200.00	12112.93	90.00	266.30	6942.00	139.90	41.21	277.98	475.56	196.41	1.70	SF(Lo)
12300.00	12212.93	90.00	266.30	6942.00	142.64	41.92	277.97	476.21	191.63	1.67	SF(Lo)
12400.00	12312.93	90.00	266.30	6942.00	145.39	42.64	277.96	476.87	186.84	1.64	SF(Lo)
12500.00	12412.93	90.00	266.30	6942.00	148.14	43.36	277.94	477.53	182.05	1.62	SF(Lo)
12600.00	12512.93	90.00	266.30	6942.00	150.89	44.08	277.93	478.19	177.26	1.59	SF(Lo)
12700.00	12612.92	90.00	266.30	6942.00	153.64	44.80	277.92	478.85	172.46	1.56	SF(Lo)
12800.00	12712.92	90.00	266.30	6942.00	156.39	45.52	277.91	479.51	167.65	1.54	SF(Lo)
12900.00	12812.92	90.00	266.30	6942.00	159.15	46.24	277.90	480.17	162.85	1.51	SF(Lo)
13000.00	12912.92	90.00	266.30	6942.00	161.90	46.97	277.89	480.82	158.04	1.49	SF(Med)
13100.00	13012.91	90.00	266.30	6942.00	164.66	47.69	277.88	481.48	153.23	1.47	SF(Med)
13200.00	13112.91	90.00	266.30	6942.00	167.42	48.41	277.87	482.14	148.41	1.44	SF(Med)
13300.00	13212.91	90.00	266.30	6942.00	170.18	49.13	277.86	482.80	143.60	1.42	SF(Med)
13400.00	13312.91	90.00	266.30	6942.00	172.94	49.85	277.85	483.46	138.78	1.40	SF(Med)
13500.00	13412.91	90.00	266.30	6942.00	175.70	50.58	277.84	484.12	133.96	1.38	SF(Med)
13600.00	13512.90	90.00	266.30	6942.00	178.46	51.30	277.83	484.78	129.13	1.36	SF(Med)
13700.00	13612.90	90.00	266.30	6942.00	181.23	52.02	277.81	485.43	124.30	1.34	SF(Med)
13800.00	13712.90	90.00	266.30	6942.00	183.99	52.75	277.80	486.09	119.48	1.33	SF(Med)
13900.00	13812.90	90.00	266.30	6942.00	186.76	53.47	277.79	486.75	114.64	1.31	SF(Med)

5D Anti-Collision Report

Secondary Well: Goetzel 12N-30B-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
14000.00	13912.89	90.00	266.30	6942.00	189.52	54.20	277.78	487.41	109.81	1.29	SF(Med)
14100.00	14012.89	90.00	266.30	6942.00	192.29	54.92	277.77	488.07	104.98	1.27	SF(Med)
14200.00	14112.89	90.00	266.30	6942.00	195.06	55.65	277.76	488.73	100.14	1.26	SF(Med)
14300.00	14212.89	90.00	266.30	6942.00	197.83	56.37	277.75	489.39	95.30	1.24	SF(Med)
14400.00	14312.89	90.00	266.30	6942.00	200.60	57.10	277.74	490.05	90.46	1.23	SF(Med)
14500.00	14412.88	90.00	266.30	6942.00	203.37	57.82	277.73	490.71	85.62	1.21	SF(Med)
14600.00	14512.88	90.00	266.30	6942.00	206.14	58.55	277.72	491.36	80.78	1.20	SF(Med)
14700.00	14612.88	90.00	266.30	6942.00	208.91	59.27	277.71	492.02	75.93	1.18	SF(Med)
14800.00	14712.88	90.00	266.30	6942.00	211.69	60.00	277.70	492.68	71.09	1.17	SF(Med)
14900.00	14812.88	90.00	266.30	6942.00	214.46	60.73	277.69	493.34	66.24	1.16	SF(Med)
15000.00	14912.87	90.00	266.30	6942.00	217.23	61.45	277.68	494.00	61.39	1.14	SF(Med)
15100.00	15012.87	90.00	266.30	6942.00	220.01	62.18	277.67	494.66	56.54	1.13	SF(Med)
15200.00	15112.87	90.00	266.30	6942.00	222.78	62.91	277.66	495.32	51.69	1.12	SF(Med)
15300.00	15212.87	90.00	266.30	6942.00	225.56	63.63	277.65	495.98	46.84	1.10	SF(Med)
15400.00	15312.86	90.00	266.30	6942.00	228.33	64.36	277.64	496.64	41.98	1.09	SF(Med)
15500.00	15412.86	90.00	266.30	6942.00	231.11	65.09	277.63	497.30	37.13	1.08	SF(Med)
15501.26	15414.12	90.00	266.30	6942.00	231.15	65.10	277.63	497.30	37.07	1.08	SF(Med)
Secondary Well: Goetzel 33C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	0.00	0.00	0.00	180.08	59.75	59.01	81.48	CC (Lo)
100.00	100.00	0.00	0.00	100.00	0.11	0.11	180.08	59.75	58.79	62.63	CC (Lo)
200.00	200.00	0.00	0.00	200.00	0.34	0.34	180.08	59.75	58.34	42.57	CC (Lo)
300.00	300.00	0.00	0.00	300.00	0.56	0.56	180.08	59.75	57.90	32.24	CC (Lo)
400.00	400.00	0.00	0.00	400.00	0.79	0.79	180.08	59.75	57.45	25.95	CC (Lo)
500.00	500.00	0.00	0.00	500.00	1.01	1.01	180.08	59.75	57.00	21.71	CC (Lo)
600.00	600.00	0.00	0.00	600.00	1.24	1.24	180.08	59.75	56.55	18.66	CC (Lo)
700.00	700.00	0.00	0.00	700.00	1.46	1.46	180.08	59.75	56.10	16.36	CC (Lo)
800.00	800.00	0.00	0.00	800.00	1.69	1.69	180.08	59.75	55.65	14.57	CC (Lo)
900.00	900.00	0.00	0.00	900.00	1.91	1.91	180.08	59.75	55.20	13.13	CC (Lo)
1000.00	1000.00	0.00	0.00	1000.00	2.14	2.14	180.08	59.75	54.75	11.95	CC (Lo)
1100.00	1100.00	0.00	0.00	1100.00	2.36	2.36	180.08	59.75	54.30	10.96	CC (Lo)
1200.00	1199.56	0.99	115.27	1199.55	2.57	2.57	179.71	59.93	54.05	10.19	CC (Lo)
1300.00	1298.55	2.97	115.27	1298.48	2.76	2.76	176.84	61.50	55.22	9.79	CC (Lo)
1400.00	1397.19	4.94	115.27	1396.88	2.96	2.94	171.55	65.08	58.38	9.71	CC (Lo)
1500.00	1495.24	6.90	115.27	1494.41	3.17	3.13	164.75	71.34	64.22	10.03	
1600.00	1592.49	8.85	115.27	1590.73	3.41	3.32	157.52	80.95	73.40	10.72	
1700.00	1688.72	10.77	115.27	1685.55	3.68	3.51	150.72	94.32	86.34	11.82	
1800.00	1784.06	12.68	115.27	1778.90	3.98	3.71	52.52	110.54	102.16	13.19	
1900.00	1878.77	14.58	115.27	1870.93	4.34	3.91	48.93	128.12	119.35	14.61	
2000.00	1973.94	15.98	115.27	1962.66	4.74	4.12	46.60	146.54	137.36	15.96	
2100.00	2072.46	15.98	115.27	2057.37	5.20	4.36	45.46	163.52	153.86	16.93	
2200.00	2171.38	15.98	115.27	2152.47	5.68	4.60	45.33	178.10	167.93	17.51	
2300.00	2270.60	15.98	115.27	2247.86	6.19	4.86	45.97	190.27	179.53	17.73	
2400.00	2369.99	15.98	115.27	2343.41	6.71	5.11	47.28	200.10	188.75	17.63	
2500.00	2469.43	15.98	115.27	2439.00	7.24	5.37	49.20	207.77	195.75	17.29	
2600.00	2568.81	15.98	115.27	2534.55	7.78	5.64	51.66	213.84	201.04	16.71	
2700.00	2668.19	15.98	115.27	2630.09	8.32	5.91	54.09	220.08	206.41	16.10	
2800.00	2767.57	15.98	115.27	2725.62	8.87	6.18	56.39	226.70	212.13	15.56	
2900.00	2866.94	15.98	115.27	2821.16	9.43	6.45	58.55	233.66	218.13	15.04	
3000.00	2966.32	15.98	115.27	2916.70	9.99	6.72	60.59	240.94	224.39	14.56	
3100.00	3065.70	15.98	115.27	3012.24	10.56	7.00	62.51	248.51	230.90	14.12	
3200.00	3165.07	15.98	115.27	3107.77	11.12	7.28	64.31	256.33	237.66	13.73	
3300.00	3264.45	15.98	115.27	3203.31	11.69	7.56	66.00	264.40	244.62	13.37	
3400.00	3363.83	15.98	115.27	3298.85	12.26	7.84	67.60	272.68	251.76	13.03	
3500.00	3463.20	15.98	115.27	3394.39	12.84	8.12	69.10	281.16	259.10	12.74	
3600.00	3562.58	15.98	115.27	3489.92	13.41	8.40	70.51	289.82	266.59	12.48	

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
3700.00	3661.96	15.98	115.27	3585.46	13.99	8.69	71.84	298.65	274.23	12.23	
3800.00	3761.33	15.98	115.27	3681.00	14.57	8.97	73.09	307.63	282.02	12.01	
3900.00	3860.71	15.98	115.27	3776.54	15.15	9.25	74.27	316.74	289.95	11.82	
4000.00	3960.09	15.98	115.27	3872.07	15.73	9.54	75.38	325.98	297.99	11.65	
4100.00	4059.46	15.98	115.27	3967.61	16.31	9.83	76.44	335.34	306.13	11.48	
4200.00	4158.84	15.98	115.27	4063.15	16.89	10.11	77.43	344.81	314.37	11.33	
4300.00	4258.22	15.98	115.27	4158.69	17.47	10.40	78.37	354.37	322.71	11.19	
4400.00	4357.59	15.98	115.27	4254.22	18.05	10.69	79.27	364.02	331.15	11.07	
4500.00	4456.97	15.98	115.27	4349.76	18.64	10.98	80.11	373.76	339.67	10.96	
4600.00	4556.34	15.98	115.27	4445.30	19.22	11.27	80.92	383.57	348.27	10.87	
4700.00	4655.72	15.98	115.27	4540.83	19.80	11.55	81.68	393.45	356.95	10.78	
4800.00	4755.10	15.98	115.27	4636.37	20.39	11.84	82.41	403.40	365.69	10.70	
4900.00	4854.47	15.98	115.27	4731.91	20.97	12.13	83.10	413.41	374.48	10.62	
5000.00	4953.85	15.98	115.27	4827.45	21.56	12.42	83.76	423.48	383.32	10.54	
5100.00	5053.23	15.98	115.27	4922.98	22.15	12.71	84.38	433.60	392.22	10.48	
5200.00	5152.60	15.98	115.27	5018.52	22.73	13.00	84.98	443.77	401.16	10.42	
5300.00	5251.98	15.98	115.27	5114.06	23.32	13.30	85.55	453.99	410.16	10.36	
5400.00	5351.36	15.98	115.27	5209.60	23.91	13.59	86.10	464.25	419.20	10.31	
5500.00	5450.73	15.98	115.27	5305.13	24.49	13.88	86.62	474.55	428.29	10.26	
5600.00	5550.11	15.98	115.27	5400.67	25.08	14.17	87.13	484.88	437.41	10.21	
5700.00	5649.49	15.98	115.27	5496.21	25.67	14.46	87.61	495.26	446.55	10.17	
5800.00	5748.86	15.98	115.27	5591.75	26.25	14.75	88.07	505.66	455.72	10.13	
5900.00	5848.24	15.98	115.27	5687.28	26.84	15.05	88.51	516.10	464.92	10.09	
6000.00	5947.62	15.98	115.27	5782.82	27.43	15.34	88.93	526.56	474.16	10.05	
6100.00	6046.99	15.98	115.27	5878.36	28.02	15.63	89.34	537.05	483.42	10.01	
6200.00	6146.37	15.98	115.27	5973.90	28.61	15.92	89.73	547.57	492.72	9.98	
6300.00	6245.78	15.98	115.27	6069.47	29.19	16.21	88.79	557.98	501.96	9.96	
6400.00	6344.87	15.98	115.27	6164.73	29.78	16.51	77.74	567.10	510.39	10.00	
6500.00	6439.06	13.23	122.34	6255.53	30.23	16.77	310.83	575.28	518.45	10.12	
6600.00	6530.84	8.49	153.23	6345.72	30.40	16.87	283.55	584.02	527.43	10.32	
6700.00	6625.43	8.85	205.08	6439.36	30.31	16.75	277.84	593.48	537.41	10.58	
6800.00	6723.24	14.30	234.17	6535.22	29.99	16.38	274.63	603.50	548.10	10.89	
6900.00	6824.70	21.54	246.37	6631.73	29.46	15.73	272.22	613.90	559.33	11.25	
7000.00	6930.24	29.54	252.69	6726.90	28.78	14.78	270.19	624.41	570.68	11.62	
7100.00	7040.22	38.07	256.61	6818.21	28.05	13.55	268.40	634.68	581.66	11.97	
7200.00	7154.90	47.05	259.36	6902.60	27.39	12.11	266.80	644.34	591.70	12.24	
7300.00	7274.36	56.47	261.47	6976.46	26.94	10.65	265.38	652.94	600.24	12.39	
7400.00	7398.44	66.27	263.23	7035.84	26.85	9.55	264.16	660.04	606.65	12.36	
7500.00	7526.61	76.42	264.78	7076.79	27.29	9.39	263.17	665.22	610.32	12.12	
7600.00	7657.99	86.83	266.25	7095.90	28.22	10.46	262.44	668.10	611.11	11.72	
7700.00	7767.90	90.00	266.68	7097.00	29.27	11.32	262.35	668.32	609.10	11.29	
7800.00	7867.90	90.00	266.68	7097.00	30.43	11.80	262.35	668.32	606.69	10.84	
7900.00	7967.90	90.00	266.68	7097.00	31.79	12.31	262.35	668.32	603.93	10.38	
8000.00	8067.90	90.00	266.68	7097.00	33.33	12.85	262.35	668.32	600.86	9.91	
8100.00	8167.90	90.00	266.68	7097.00	35.03	13.40	262.35	668.31	597.35	9.42	
8200.00	8267.90	90.00	266.68	7097.00	36.86	13.97	262.35	668.31	593.62	8.95	
8300.00	8367.90	90.00	266.68	7097.00	38.81	14.56	262.35	668.31	589.70	8.50	
8400.00	8467.90	90.00	266.68	7097.00	40.85	15.16	262.35	668.31	585.59	8.08	
8500.00	8567.90	90.00	266.68	7097.00	42.98	15.78	262.35	668.31	581.33	7.68	
8600.00	8667.90	90.00	266.68	7097.00	45.18	16.40	262.35	668.31	576.94	7.31	
8700.00	8767.90	90.00	266.68	7097.00	47.45	17.03	262.35	668.31	572.42	6.97	
8800.00	8867.90	90.00	266.68	7097.00	49.77	17.67	262.35	668.31	567.80	6.65	
8900.00	8967.90	90.00	266.68	7097.00	52.14	18.32	262.35	668.31	563.08	6.35	
9000.00	9067.90	90.00	266.68	7097.00	54.54	18.97	262.35	668.31	558.29	6.07	
9100.00	9167.90	90.00	266.68	7097.00	56.99	19.63	262.35	668.30	553.43	5.82	
9200.00	9267.90	90.00	266.68	7097.00	59.46	20.29	262.35	668.30	548.51	5.58	
9300.00	9367.90	90.00	266.68	7097.00	61.96	20.96	262.35	668.30	543.54	5.36	
9400.00	9467.90	90.00	266.68	7097.00	64.49	21.64	262.35	668.30	538.51	5.15	

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
9500.00	9567.90	90.00	266.68	7097.00	67.04	22.31	262.35	668.30	533.45	4.96	
9600.00	9667.90	90.00	266.68	7097.00	69.61	22.99	262.35	668.30	528.35	4.78	
9700.00	9767.90	90.00	266.68	7097.00	72.19	23.67	262.35	668.30	523.22	4.61	
9800.00	9867.90	90.00	266.68	7097.00	74.79	24.36	262.35	668.30	518.05	4.45	
9900.00	9967.90	90.00	266.68	7097.00	77.40	25.05	262.35	668.30	512.86	4.30	
10000.00	10067.90	90.00	266.68	7097.00	80.03	25.74	262.35	668.30	507.65	4.16	
10100.00	10167.90	90.00	266.68	7097.00	82.67	26.43	262.35	668.29	502.41	4.03	
10200.00	10267.90	90.00	266.68	7097.00	85.31	27.13	262.35	668.29	497.15	3.90	
10300.00	10367.90	90.00	266.68	7097.00	87.97	27.83	262.35	668.29	491.88	3.79	
10400.00	10467.90	90.00	266.68	7097.00	90.64	28.53	262.35	668.29	486.59	3.68	
10500.00	10567.90	90.00	266.68	7097.00	93.31	29.23	262.35	668.29	481.28	3.57	
10600.00	10667.90	90.00	266.68	7097.00	95.99	29.93	262.35	668.29	475.96	3.47	
10700.00	10767.90	90.00	266.68	7097.00	98.68	30.63	262.35	668.29	470.63	3.38	
10800.00	10867.90	90.00	266.68	7097.00	101.37	31.34	262.35	668.29	465.29	3.29	
10900.00	10967.90	90.00	266.68	7097.00	104.07	32.04	262.35	668.29	459.93	3.21	
11000.00	11067.90	90.00	266.68	7097.00	106.77	32.75	262.35	668.28	454.57	3.13	
11100.00	11167.90	90.00	266.68	7097.00	109.48	33.46	262.35	668.28	449.20	3.05	
11200.00	11267.90	90.00	266.68	7097.00	112.19	34.17	262.35	668.28	443.81	2.98	
11300.00	11367.90	90.00	266.68	7097.00	114.91	34.88	262.35	668.28	438.42	2.91	
11400.00	11467.90	90.00	266.68	7097.00	117.63	35.59	262.35	668.28	433.03	2.84	
11500.00	11567.90	90.00	266.68	7097.00	120.35	36.30	262.35	668.28	427.62	2.78	
11600.00	11667.90	90.00	266.68	7097.00	123.08	37.02	262.35	668.28	422.21	2.72	
11700.00	11767.90	90.00	266.68	7097.00	125.81	37.73	262.35	668.28	416.79	2.66	
11800.00	11867.90	90.00	266.68	7097.00	128.55	38.45	262.35	668.28	411.37	2.60	
11900.00	11967.90	90.00	266.68	7097.00	131.28	39.16	262.35	668.28	405.94	2.55	
12000.00	12067.90	90.00	266.68	7097.00	134.02	39.88	262.35	668.27	400.51	2.50	SF(Lo)
12100.00	12167.90	90.00	266.68	7097.00	136.76	40.59	262.35	668.27	395.07	2.45	SF(Lo)
12200.00	12267.90	90.00	266.68	7097.00	139.51	41.31	262.35	668.27	389.63	2.40	SF(Lo)
12300.00	12367.90	90.00	266.68	7097.00	142.25	42.03	262.35	668.27	384.19	2.35	SF(Lo)
12400.00	12467.90	90.00	266.68	7097.00	145.00	42.75	262.35	668.27	378.74	2.31	SF(Lo)
12500.00	12567.90	90.00	266.68	7097.00	147.75	43.47	262.35	668.27	373.28	2.27	SF(Lo)
12600.00	12667.90	90.00	266.68	7097.00	150.50	44.18	262.35	668.27	367.82	2.22	SF(Lo)
12700.00	12767.90	90.00	266.68	7097.00	153.25	44.90	262.35	668.27	362.36	2.18	SF(Lo)
12800.00	12867.90	90.00	266.68	7097.00	156.01	45.62	262.35	668.27	356.90	2.15	SF(Lo)
12900.00	12967.90	90.00	266.68	7097.00	158.76	46.34	262.35	668.27	351.43	2.11	SF(Lo)
13000.00	13067.90	90.00	266.68	7097.00	161.52	47.07	262.35	668.26	345.97	2.07	SF(Lo)
13100.00	13167.90	90.00	266.68	7097.00	164.28	47.79	262.35	668.26	340.49	2.04	SF(Lo)
13200.00	13267.90	90.00	266.68	7097.00	167.04	48.51	262.35	668.26	335.02	2.01	SF(Lo)
13300.00	13367.90	90.00	266.68	7097.00	169.80	49.23	262.35	668.26	329.54	1.97	SF(Lo)
13400.00	13467.90	90.00	266.68	7097.00	172.56	49.95	262.35	668.26	324.06	1.94	SF(Lo)
13500.00	13567.90	90.00	266.68	7097.00	175.33	50.68	262.35	668.26	318.58	1.91	SF(Lo)
13600.00	13667.90	90.00	266.68	7097.00	178.09	51.40	262.35	668.26	313.10	1.88	SF(Lo)
13700.00	13767.90	90.00	266.68	7097.00	180.86	52.12	262.35	668.26	307.61	1.85	SF(Lo)
13800.00	13867.90	90.00	266.68	7097.00	183.62	52.85	262.35	668.26	302.13	1.83	SF(Lo)
13900.00	13967.90	90.00	266.68	7097.00	186.39	53.57	262.35	668.26	296.64	1.80	SF(Lo)
14000.00	14067.90	90.00	266.68	7097.00	189.16	54.29	262.35	668.25	291.15	1.77	SF(Lo)
14100.00	14167.90	90.00	266.68	7097.00	191.93	55.02	262.35	668.25	285.65	1.75	SF(Lo)
14200.00	14267.90	90.00	266.68	7097.00	194.70	55.74	262.35	668.25	280.16	1.72	SF(Lo)
14300.00	14367.90	90.00	266.68	7097.00	197.47	56.47	262.35	668.25	274.66	1.70	SF(Lo)
14400.00	14467.90	90.00	266.68	7097.00	200.24	57.19	262.35	668.25	269.17	1.67	SF(Lo)
14500.00	14567.90	90.00	266.68	7097.00	203.01	57.92	262.35	668.25	263.67	1.65	SF(Lo)
14600.00	14667.90	90.00	266.68	7097.00	205.79	58.64	262.35	668.25	258.17	1.63	SF(Lo)
14700.00	14767.90	90.00	266.68	7097.00	208.56	59.37	262.35	668.25	252.67	1.61	SF(Lo)
14800.00	14867.90	90.00	266.68	7097.00	211.33	60.09	262.35	668.25	247.16	1.59	SF(Lo)
14900.00	14967.90	90.00	266.68	7097.00	214.11	60.82	262.35	668.24	241.66	1.57	SF(Lo)
15000.00	15067.90	90.00	266.68	7097.00	216.89	61.55	262.35	668.24	236.16	1.55	SF(Lo)
15100.00	15167.90	90.00	266.68	7097.00	219.66	62.27	262.35	668.24	230.65	1.53	SF(Lo)
15200.00	15267.90	90.00	266.68	7097.00	222.44	63.00	262.35	668.24	225.14	1.51	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
15300.00	15367.90	90.00	266.68	7097.00	225.22	63.73	262.35	668.24	219.64	1.49	SF(Med)
15400.00	15467.90	90.00	266.68	7097.00	227.99	64.45	262.35	668.24	214.13	1.47	SF(Med)
15500.00	15567.90	90.00	266.68	7097.00	230.77	65.18	262.35	668.24	208.62	1.45	SF(Med)
15501.26	15569.16	90.00	266.68	7097.00	230.81	65.19	262.35	668.24	208.55	1.45	SF(Med)
Secondary Well: Goetzel 33N-30B-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	0.00	0.00	0.00	180.15	79.79	79.05	108.80	
100.00	100.00	0.00	0.00	100.00	0.11	0.11	180.15	79.79	78.83	83.64	
200.00	200.00	0.00	0.00	200.00	0.34	0.34	180.15	79.79	78.38	56.85	
300.00	300.00	0.00	0.00	300.00	0.56	0.56	180.15	79.79	77.93	43.06	
400.00	400.00	0.00	0.00	400.00	0.79	0.79	180.15	79.79	77.48	34.65	
500.00	500.00	0.00	0.00	500.00	1.01	1.01	180.15	79.79	77.03	28.99	
600.00	600.00	0.00	0.00	600.00	1.24	1.24	180.15	79.79	76.58	24.92	
700.00	700.00	0.00	0.00	700.00	1.46	1.46	180.15	79.79	76.14	21.85	
800.00	800.00	0.00	0.00	800.00	1.69	1.69	180.15	79.79	75.69	19.46	
900.00	900.00	0.00	0.00	900.00	1.91	1.91	180.15	79.79	75.24	17.53	
1000.00	1000.00	0.00	0.00	1000.00	2.14	2.14	180.15	79.79	74.79	15.96	
1100.00	1098.44	1.97	123.78	1098.42	2.34	2.33	179.15	80.75	75.33	14.91	
1200.00	1196.65	3.93	123.78	1196.50	2.52	2.52	176.30	83.79	77.96	14.38	
1300.00	1294.40	5.89	123.78	1293.88	2.73	2.70	172.03	89.26	83.03	14.31	
1400.00	1391.47	7.83	123.78	1390.25	2.95	2.89	166.92	97.64	90.98	14.65	
1500.00	1487.64	9.75	123.78	1485.29	3.20	3.08	161.60	109.34	102.24	15.40	
1600.00	1582.71	11.65	123.78	1578.70	3.49	3.27	156.54	124.61	117.08	16.54	
1700.00	1676.50	13.53	123.78	1670.23	3.82	3.47	152.02	143.53	135.57	18.04	
1800.00	1769.20	15.38	123.78	1759.99	4.20	3.67	55.49	165.10	156.74	19.76	
1900.00	1861.09	17.22	123.78	1848.18	4.62	3.87	52.98	188.00	179.26	21.50	
2000.00	1957.31	17.55	123.78	1939.94	5.12	4.12	51.41	210.95	201.76	22.96	
2100.00	2055.09	17.55	123.78	2033.16	5.66	4.37	50.78	231.86	222.16	23.92	
2200.00	2153.30	17.55	123.78	2126.80	6.21	4.63	50.86	250.61	240.38	24.50	
2300.00	2251.81	17.55	123.78	2220.73	6.78	4.89	51.52	267.24	256.42	24.71	
2400.00	2350.52	17.55	123.78	2314.84	7.37	5.17	52.66	281.83	270.38	24.63	
2500.00	2449.30	17.55	123.78	2409.02	7.96	5.44	54.25	294.54	282.37	24.21	
2600.00	2548.05	17.55	123.78	2503.17	8.56	5.72	56.25	305.87	292.89	23.56	
2700.00	2646.79	17.55	123.78	2597.31	9.17	6.00	58.25	317.39	303.52	22.88	
2800.00	2745.53	17.55	123.78	2691.45	9.78	6.28	60.11	329.27	314.49	22.28	
2900.00	2844.26	17.55	123.78	2785.60	10.39	6.57	61.84	341.47	325.72	21.68	
3000.00	2943.00	17.55	123.78	2879.74	11.01	6.86	63.45	353.96	337.18	21.09	
3100.00	3041.74	17.55	123.78	2973.88	11.63	7.14	64.95	366.71	348.87	20.55	
3200.00	3140.48	17.55	123.78	3068.02	12.25	7.43	66.35	379.69	360.78	20.08	
3300.00	3239.22	17.55	123.78	3162.16	12.87	7.73	67.65	392.88	372.89	19.66	
3400.00	3337.96	17.55	123.78	3256.30	13.50	8.02	68.88	406.26	385.19	19.28	
3500.00	3436.69	17.55	123.78	3350.44	14.12	8.31	70.02	419.81	397.63	18.93	
3600.00	3535.43	17.55	123.78	3444.58	14.75	8.61	71.09	433.51	410.16	18.57	
3700.00	3634.17	17.55	123.78	3538.73	15.38	8.90	72.10	447.36	422.82	18.24	
3800.00	3732.91	17.55	123.78	3632.87	16.01	9.20	73.04	461.33	435.61	17.94	
3900.00	3831.65	17.55	123.78	3727.01	16.64	9.50	73.93	475.42	448.51	17.67	
4000.00	3930.39	17.55	123.78	3821.15	17.27	9.79	74.77	489.61	461.52	17.43	
4100.00	4029.12	17.55	123.78	3915.29	17.90	10.09	75.57	503.91	474.62	17.21	
4200.00	4127.86	17.55	123.78	4009.43	18.53	10.39	76.31	518.29	487.82	17.01	
4300.00	4226.60	17.55	123.78	4103.57	19.17	10.69	77.02	532.76	501.09	16.82	
4400.00	4325.34	17.55	123.78	4197.72	19.80	10.99	77.69	547.30	514.44	16.65	
4500.00	4424.08	17.55	123.78	4291.86	20.43	11.29	78.33	561.91	527.86	16.50	
4600.00	4522.82	17.55	123.78	4386.00	21.07	11.59	78.93	576.59	541.34	16.36	
4700.00	4621.55	17.55	123.78	4480.14	21.70	11.89	79.51	591.33	554.89	16.23	
4800.00	4720.29	17.55	123.78	4574.28	22.34	12.19	80.05	606.12	568.47	16.10	
4900.00	4819.03	17.55	123.78	4668.42	22.97	12.49	80.57	620.96	582.10	15.98	

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
5000.00	4917.77	17.55	123.78	4762.56	23.61	12.79	81.07	635.85	595.77	15.86	
5100.00	5016.51	17.55	123.78	4856.70	24.25	13.09	81.54	650.79	609.48	15.76	
5200.00	5115.25	17.55	123.78	4950.85	24.88	13.39	81.99	665.76	623.24	15.66	
5300.00	5213.98	17.55	123.78	5044.99	25.52	13.70	82.43	680.78	637.03	15.56	
5400.00	5312.72	17.55	123.78	5139.13	26.15	14.00	82.84	695.83	650.85	15.47	
5500.00	5411.46	17.55	123.78	5233.27	26.79	14.30	83.24	710.92	664.70	15.38	
5600.00	5510.20	17.55	123.78	5327.41	27.43	14.60	83.62	726.03	678.58	15.30	
5700.00	5608.94	17.55	123.78	5421.55	28.07	14.91	83.98	741.18	692.50	15.22	
5800.00	5707.68	17.55	123.78	5515.69	28.70	15.21	84.33	756.36	706.44	15.15	
5900.00	5806.41	17.55	123.78	5609.83	29.34	15.51	84.67	771.56	720.41	15.08	
6000.00	5905.15	17.55	123.78	5703.98	29.98	15.81	84.99	786.79	734.40	15.02	
6100.00	6003.89	17.55	123.78	5798.12	30.61	16.12	85.30	802.04	748.42	14.96	
6200.00	6102.63	17.55	123.78	5892.26	31.25	16.42	85.60	817.31	762.47	14.90	
6300.00	6201.40	17.55	123.78	5986.43	31.89	16.73	84.78	832.56	776.55	14.86	
6400.00	6297.58	15.30	130.58	6078.34	32.45	17.02	74.61	847.34	790.69	14.96	
6500.00	6390.78	11.15	158.24	6169.14	32.60	17.16	309.55	861.97	805.18	15.18	
6600.00	6485.29	11.19	198.04	6261.99	32.42	17.09	284.18	876.34	819.71	15.48	
6700.00	6581.30	15.55	226.01	6355.48	31.94	16.81	280.34	890.19	833.97	15.84	
6800.00	6679.02	21.92	240.37	6448.02	31.22	16.28	278.93	903.28	847.62	16.23	
6900.00	6778.62	29.12	248.38	6537.88	30.32	15.49	278.22	915.35	860.31	16.63	
7000.00	6880.25	36.77	253.46	6623.11	29.35	14.43	277.76	926.18	871.65	16.98	
7100.00	6983.97	44.73	257.05	6701.64	28.43	13.14	277.39	935.54	881.38	17.28	
7200.00	7089.83	52.95	259.79	6771.26	27.70	11.70	277.04	943.21	889.17	17.45	
7300.00	7197.74	61.37	262.03	6829.74	27.30	10.34	276.67	949.02	894.69	17.47	
7400.00	7307.57	69.98	263.97	6874.93	27.32	9.46	276.27	952.80	897.70	17.29	
7500.00	7419.06	78.74	265.73	6904.97	27.81	9.51	275.84	954.43	897.98	16.91	
7600.00	7531.89	87.61	267.40	6918.37	28.70	10.67	275.39	953.85	895.60	16.38	
7700.00	7635.49	90.00	267.85	6919.00	29.73	11.49	275.37	951.87	891.46	15.76	
7800.00	7735.47	90.00	267.85	6919.00	30.89	12.00	275.38	949.84	886.97	15.11	
7900.00	7835.45	90.00	267.85	6919.00	32.26	12.53	275.39	947.81	882.20	14.45	
8000.00	7935.43	90.00	267.85	6919.00	33.80	13.08	275.40	945.78	876.95	13.74	
8100.00	8035.41	90.00	267.85	6919.00	35.50	13.66	275.41	943.76	871.46	13.05	
8200.00	8135.39	90.00	267.85	6919.00	37.33	14.25	275.42	941.73	865.80	12.40	
8300.00	8235.37	90.00	267.85	6919.00	39.27	14.86	275.44	939.70	859.86	11.77	
8400.00	8335.35	90.00	267.85	6919.00	41.31	15.48	275.45	937.67	853.67	11.16	
8500.00	8435.33	90.00	267.85	6919.00	43.44	16.11	275.46	935.64	847.34	10.60	
8600.00	8535.31	90.00	267.85	6919.00	45.64	16.75	275.47	933.62	840.89	10.07	
8700.00	8635.29	90.00	267.85	6919.00	47.90	17.40	275.48	931.59	834.32	9.58	
8800.00	8735.27	90.00	267.85	6919.00	50.22	18.05	275.50	929.56	827.66	9.12	
8900.00	8835.25	90.00	267.85	6919.00	52.58	18.71	275.51	927.53	820.90	8.70	
9000.00	8935.23	90.00	267.85	6919.00	54.99	19.38	275.52	925.51	814.07	8.31	
9100.00	9035.20	90.00	267.85	6919.00	57.43	20.04	275.53	923.48	807.17	7.94	
9200.00	9135.18	90.00	267.85	6919.00	59.90	20.72	275.54	921.45	800.21	7.60	
9300.00	9235.16	90.00	267.85	6919.00	62.40	21.40	275.56	919.42	793.20	7.28	
9400.00	9335.14	90.00	267.85	6919.00	64.93	22.08	275.57	917.40	786.14	6.99	
9500.00	9435.12	90.00	267.85	6919.00	67.48	22.76	275.58	915.37	779.03	6.71	
9600.00	9535.10	90.00	267.85	6919.00	70.04	23.45	275.59	913.34	771.89	6.46	
9700.00	9635.08	90.00	267.85	6919.00	72.63	24.14	275.61	911.32	764.72	6.22	
9800.00	9735.06	90.00	267.85	6919.00	75.23	24.83	275.62	909.29	757.52	5.99	
9900.00	9835.04	90.00	267.85	6919.00	77.84	25.52	275.63	907.26	750.29	5.78	
10000.00	9935.02	90.00	267.85	6919.00	80.47	26.22	275.64	905.23	743.03	5.58	
10100.00	10035.00	90.00	267.85	6919.00	83.11	26.92	275.66	903.21	735.76	5.39	
10200.00	10134.98	90.00	267.85	6919.00	85.76	27.62	275.67	901.18	728.46	5.22	
10300.00	10234.96	90.00	267.85	6919.00	88.42	28.32	275.68	899.15	721.15	5.05	
10400.00	10334.93	90.00	267.85	6919.00	91.09	29.02	275.69	897.13	713.82	4.89	
10500.00	10434.91	90.00	267.85	6919.00	93.76	29.73	275.71	895.10	706.47	4.75	
10600.00	10534.89	90.00	267.85	6919.00	96.44	30.43	275.72	893.07	699.11	4.60	
10700.00	10634.87	90.00	267.85	6919.00	99.13	31.14	275.73	891.04	691.74	4.47	

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
10800.00	10734.85	90.00	267.85	6919.00	101.83	31.85	275.75	889.02	684.36	4.34	
10900.00	10834.83	90.00	267.85	6919.00	104.53	32.56	275.76	886.99	676.96	4.22	
11000.00	10934.81	90.00	267.85	6919.00	107.24	33.27	275.77	884.96	669.56	4.11	
11100.00	11034.79	90.00	267.85	6919.00	109.95	33.98	275.79	882.94	662.15	4.00	
11200.00	11134.77	90.00	267.85	6919.00	112.66	34.69	275.80	880.91	654.72	3.89	
11300.00	11234.75	90.00	267.85	6919.00	115.38	35.40	275.81	878.88	647.30	3.80	
11400.00	11334.73	90.00	267.85	6919.00	118.11	36.11	275.83	876.86	639.86	3.70	
11500.00	11434.71	90.00	267.85	6919.00	120.83	36.83	275.84	874.83	632.42	3.61	
11600.00	11534.69	90.00	267.85	6919.00	123.56	37.54	275.85	872.81	624.97	3.52	
11700.00	11634.66	90.00	267.85	6919.00	126.30	38.26	275.87	870.78	617.51	3.44	
11800.00	11734.64	90.00	267.85	6919.00	129.03	38.98	275.88	868.75	610.05	3.36	
11900.00	11834.62	90.00	267.85	6919.00	131.77	39.69	275.90	866.73	602.59	3.28	
12000.00	11934.60	90.00	267.85	6919.00	134.52	40.41	275.91	864.70	595.12	3.21	
12100.00	12034.58	90.00	267.85	6919.00	137.26	41.13	275.92	862.67	587.64	3.14	
12200.00	12134.56	90.00	267.85	6919.00	140.01	41.85	275.94	860.65	580.16	3.07	
12300.00	12234.54	90.00	267.85	6919.00	142.76	42.57	275.95	858.62	572.68	3.00	
12400.00	12334.52	90.00	267.85	6919.00	145.51	43.29	275.97	856.60	565.19	2.94	
12500.00	12434.50	90.00	267.85	6919.00	148.26	44.01	275.98	854.57	557.71	2.88	
12600.00	12534.48	90.00	267.85	6919.00	151.02	44.73	275.99	852.54	550.21	2.82	
12700.00	12634.46	90.00	267.85	6919.00	153.77	45.45	276.01	850.52	542.72	2.76	
12800.00	12734.44	90.00	267.85	6919.00	156.53	46.17	276.02	848.49	535.22	2.71	
12900.00	12834.42	90.00	267.85	6919.00	159.29	46.89	276.04	846.47	527.72	2.66	
13000.00	12934.40	90.00	267.85	6919.00	162.05	47.61	276.05	844.44	520.21	2.60	
13100.00	13034.37	90.00	267.85	6919.00	164.82	48.33	276.07	842.42	512.71	2.56	
13200.00	13134.35	90.00	267.85	6919.00	167.58	49.06	276.08	840.39	505.20	2.51	
13300.00	13234.33	90.00	267.85	6919.00	170.35	49.78	276.10	838.36	497.69	2.46	SF(Lo)
13400.00	13334.31	90.00	267.85	6919.00	173.11	50.50	276.11	836.34	490.18	2.42	SF(Lo)
13500.00	13434.29	90.00	267.85	6919.00	175.88	51.23	276.12	834.31	482.66	2.37	SF(Lo)
13600.00	13534.27	90.00	267.85	6919.00	178.65	51.95	276.14	832.29	475.15	2.33	SF(Lo)
13700.00	13634.25	90.00	267.85	6919.00	181.42	52.67	276.15	830.26	467.63	2.29	SF(Lo)
13800.00	13734.23	90.00	267.85	6919.00	184.19	53.40	276.17	828.24	460.11	2.25	SF(Lo)
13900.00	13834.21	90.00	267.85	6919.00	186.96	54.12	276.19	826.21	452.59	2.21	SF(Lo)
14000.00	13934.19	90.00	267.85	6919.00	189.74	54.85	276.20	824.19	445.07	2.17	SF(Lo)
14100.00	14034.17	90.00	267.85	6919.00	192.51	55.57	276.22	822.16	437.55	2.14	SF(Lo)
14200.00	14134.15	90.00	267.85	6919.00	195.28	56.30	276.23	820.14	430.03	2.10	SF(Lo)
14300.00	14234.13	90.00	267.85	6919.00	198.06	57.02	276.25	818.11	422.50	2.07	SF(Lo)
14400.00	14334.10	90.00	267.85	6919.00	200.83	57.75	276.26	816.09	414.97	2.03	SF(Lo)
14500.00	14434.08	90.00	267.85	6919.00	203.61	58.47	276.28	814.06	407.45	2.00	SF(Lo)
14600.00	14534.06	90.00	267.85	6919.00	206.39	59.20	276.29	812.04	399.92	1.97	SF(Lo)
14700.00	14634.04	90.00	267.85	6919.00	209.17	59.93	276.31	810.01	392.39	1.94	SF(Lo)
14800.00	14734.02	90.00	267.85	6919.00	211.95	60.65	276.33	807.99	384.86	1.91	SF(Lo)
14900.00	14834.00	90.00	267.85	6919.00	214.73	61.38	276.34	805.96	377.33	1.88	SF(Lo)
15000.00	14933.98	90.00	267.85	6919.00	217.51	62.10	276.36	803.94	369.80	1.85	SF(Lo)
15100.00	15033.96	90.00	267.85	6919.00	220.29	62.83	276.37	801.92	362.27	1.82	SF(Lo)
15200.00	15133.94	90.00	267.85	6919.00	223.07	63.56	276.39	799.89	354.74	1.80	SF(Lo)
15300.00	15233.92	90.00	267.85	6919.00	225.85	64.29	276.41	797.87	347.21	1.77	SF(Lo)
15400.00	15333.90	90.00	267.85	6919.00	228.63	65.01	276.42	795.84	339.67	1.74	SF(Lo)
15500.00	15433.88	90.00	267.85	6919.00	231.41	65.74	276.44	793.82	332.14	1.72	SF(Lo)
15501.26	15435.13	90.00	267.85	6919.00	231.45	65.75	276.44	793.79	332.04	1.72	SF(Lo)
Secondary Well: Goetzel 13N-30C-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	0.00	0.00	0.00	180.03	99.82	99.09	136.12	
100.00	100.00	0.00	0.00	100.00	0.11	0.11	180.03	99.82	98.87	104.64	
200.00	200.00	0.00	0.00	200.00	0.34	0.34	180.03	99.82	98.42	71.12	
300.00	300.00	0.00	0.00	300.00	0.56	0.56	180.03	99.82	97.97	53.87	
400.00	400.00	0.00	0.00	400.00	0.79	0.79	180.03	99.82	97.52	43.35	

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
500.00	500.00	0.00	0.00	500.00	1.01	1.01	180.03	99.82	97.07	36.27	
600.00	600.00	0.00	0.00	600.00	1.24	1.24	180.03	99.82	96.62	31.18	
700.00	700.00	0.00	0.00	700.00	1.46	1.46	180.03	99.82	96.17	27.34	
800.00	800.00	0.00	0.00	800.00	1.69	1.69	180.03	99.82	95.72	24.34	
900.00	898.97	0.98	127.01	898.97	1.90	1.90	179.84	100.08	95.55	22.08	
1000.00	996.79	2.94	127.01	996.73	2.08	2.08	178.34	102.18	97.24	20.68	
1100.00	1094.27	4.89	127.01	1093.98	2.28	2.26	175.55	106.58	101.24	19.96	
1200.00	1191.19	6.82	127.01	1190.39	2.49	2.45	171.80	113.60	107.83	19.66	
1300.00	1287.33	8.75	127.01	1285.64	2.73	2.64	167.51	123.62	117.41	19.90	
1400.00	1382.49	10.65	127.01	1379.43	3.01	2.84	163.10	136.92	130.28	20.60	
1500.00	1476.48	12.53	127.01	1471.49	3.33	3.04	158.88	153.70	146.61	21.66	
1600.00	1569.11	14.38	127.01	1561.58	3.69	3.24	155.03	174.02	166.51	23.17	
1700.00	1660.23	16.20	127.01	1649.47	4.10	3.45	151.65	197.83	189.87	24.85	
1800.00	1752.35	17.39	127.01	1737.56	4.56	3.67	55.84	223.96	215.59	26.78	
1900.00	1848.94	17.39	127.01	1829.74	5.09	3.93	53.87	249.08	240.27	28.27	
2000.00	1946.15	17.39	127.01	1922.51	5.64	4.18	52.82	272.31	263.01	29.30	
2100.00	2043.88	17.39	127.01	2015.77	6.20	4.45	52.47	293.49	283.69	29.93	
2200.00	2142.00	17.39	127.01	2109.41	6.78	4.72	52.67	312.61	302.25	30.19	
2300.00	2240.38	17.39	127.01	2203.30	7.37	5.00	53.34	329.69	318.75	30.13	
2400.00	2338.92	17.39	127.01	2297.33	7.97	5.28	54.41	344.86	333.25	29.72	
2500.00	2437.48	17.39	127.01	2391.40	8.57	5.56	55.86	358.25	345.91	29.04	
2600.00	2535.99	17.39	127.01	2485.40	9.18	5.84	57.70	370.34	357.18	28.15	
2700.00	2634.48	17.39	127.01	2579.39	9.79	6.13	59.56	382.65	368.60	27.24	
2800.00	2732.96	17.39	127.01	2673.38	10.40	6.41	61.30	395.33	380.35	26.39	
2900.00	2831.45	17.39	127.01	2767.37	11.01	6.70	62.93	408.35	392.40	25.59	
3000.00	2929.94	17.39	127.01	2861.36	11.63	6.99	64.46	421.69	404.73	24.87	
3100.00	3028.43	17.39	127.01	2955.35	12.25	7.29	65.89	435.30	417.29	24.17	
3200.00	3126.92	17.39	127.01	3049.34	12.87	7.58	67.24	449.17	430.09	23.55	
3300.00	3225.41	17.39	127.01	3143.33	13.49	7.87	68.51	463.27	443.12	22.99	
3400.00	3323.90	17.39	127.01	3237.32	14.11	8.17	69.71	477.58	456.34	22.49	
3500.00	3422.39	17.39	127.01	3331.31	14.73	8.46	70.83	492.09	469.73	22.01	
3600.00	3520.88	17.39	127.01	3425.30	15.35	8.76	71.89	506.77	483.28	21.58	
3700.00	3619.37	17.39	127.01	3519.29	15.98	9.05	72.89	521.61	496.96	21.16	
3800.00	3717.86	17.39	127.01	3613.28	16.60	9.35	73.84	536.60	510.77	20.77	
3900.00	3816.34	17.39	127.01	3707.27	17.23	9.65	74.73	551.73	524.71	20.42	
4000.00	3914.83	17.39	127.01	3801.26	17.85	9.94	75.58	566.98	538.78	20.10	
4100.00	4013.32	17.39	127.01	3895.25	18.48	10.24	76.38	582.35	552.96	19.81	
4200.00	4111.81	17.39	127.01	3989.24	19.11	10.54	77.14	597.83	567.25	19.55	
4300.00	4210.30	17.39	127.01	4083.23	19.73	10.84	77.87	613.40	581.64	19.31	
4400.00	4308.79	17.39	127.01	4177.22	20.36	11.14	78.55	629.07	596.11	19.09	
4500.00	4407.28	17.39	127.01	4271.21	20.99	11.44	79.21	644.82	610.67	18.89	
4600.00	4505.77	17.39	127.01	4365.20	21.62	11.74	79.83	660.65	625.31	18.70	
4700.00	4604.26	17.39	127.01	4459.18	22.24	12.04	80.43	676.55	640.03	18.53	
4800.00	4702.75	17.39	127.01	4553.17	22.87	12.34	80.99	692.52	654.81	18.37	
4900.00	4801.24	17.39	127.01	4647.16	23.50	12.64	81.53	708.55	669.66	18.22	
5000.00	4899.72	17.39	127.01	4741.15	24.13	12.94	82.05	724.64	684.56	18.08	
5100.00	4998.21	17.39	127.01	4835.14	24.76	13.24	82.55	740.79	699.49	17.94	
5200.00	5096.70	17.39	127.01	4929.13	25.39	13.54	83.02	756.99	714.46	17.80	
5300.00	5195.19	17.39	127.01	5023.12	26.02	13.84	83.47	773.23	729.48	17.67	
5400.00	5293.68	17.39	127.01	5117.11	26.65	14.14	83.91	789.53	744.54	17.55	
5500.00	5392.17	17.39	127.01	5211.10	27.28	14.44	84.33	805.86	759.65	17.44	
5600.00	5490.66	17.39	127.01	5305.09	27.91	14.75	84.73	822.24	774.80	17.33	
5700.00	5589.15	17.39	127.01	5399.08	28.54	15.05	85.11	838.65	789.98	17.23	
5800.00	5687.64	17.39	127.01	5493.07	29.17	15.35	85.49	855.10	805.20	17.14	
5900.00	5786.13	17.39	127.01	5587.06	29.80	15.65	85.84	871.58	820.46	17.05	
6000.00	5884.62	17.39	127.01	5681.05	30.43	15.95	86.19	888.10	835.75	16.97	
6100.00	5983.10	17.39	127.01	5775.04	31.06	16.26	86.52	904.64	851.07	16.89	
6200.00	6081.59	17.39	127.01	5869.03	31.69	16.56	86.84	921.22	866.42	16.81	

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
6300.00	6180.13	17.39	127.01	5963.07	32.32	16.86	86.10	937.74	881.78	16.76	
6400.00	6278.49	17.39	127.01	6056.94	32.95	17.16	76.03	953.47	896.82	16.83	
6500.00	6371.15	15.50	133.74	6145.52	33.48	17.44	310.54	968.41	911.55	17.03	
6600.00	6458.40	12.04	159.62	6230.33	33.62	17.59	284.70	983.51	926.93	17.38	
6700.00	6548.05	12.13	194.39	6318.11	33.41	17.57	280.40	998.80	942.78	17.83	
6800.00	6640.57	15.99	220.83	6407.93	32.88	17.37	278.54	1014.07	958.61	18.28	
6900.00	6736.48	21.97	235.86	6498.64	32.05	16.95	277.39	1029.09	974.29	18.78	
7000.00	6836.33	29.02	244.68	6588.74	30.97	16.26	276.50	1043.57	989.46	19.28	
7100.00	6940.67	36.77	250.42	6676.32	29.75	15.26	275.71	1057.22	1003.69	19.75	
7200.00	7050.04	45.09	254.54	6758.89	28.55	13.93	274.95	1069.72	1016.51	20.10	
7300.00	7164.86	53.95	257.73	6833.35	27.58	12.30	274.20	1080.68	1027.39	20.28	
7400.00	7285.34	63.32	260.39	6895.99	27.05	10.64	273.45	1089.73	1035.82	20.21	
7500.00	7411.39	73.17	262.74	6942.66	27.14	9.60	272.72	1096.47	1041.26	19.86	
7600.00	7542.49	83.44	264.94	6969.21	27.91	10.05	272.02	1100.55	1043.26	19.21	
7700.00	7664.07	90.00	266.28	6974.00	29.02	11.38	271.77	1101.85	1042.17	18.46	
7800.00	7764.07	90.00	266.28	6974.00	30.12	11.88	271.77	1102.54	1040.51	17.77	
7900.00	7864.07	90.00	266.28	6974.00	31.42	12.40	271.77	1103.23	1038.45	17.03	
8000.00	7964.06	90.00	266.28	6974.00	32.90	12.95	271.76	1103.93	1035.99	16.25	
8100.00	8064.06	90.00	266.28	6974.00	34.54	13.53	271.76	1104.62	1033.29	15.49	
8200.00	8164.06	90.00	266.28	6974.00	36.32	14.12	271.76	1105.31	1030.26	14.73	
8300.00	8264.06	90.00	266.28	6974.00	38.23	14.73	271.76	1106.00	1027.16	14.03	
8400.00	8364.05	90.00	266.28	6974.00	40.23	15.35	271.76	1106.69	1023.67	13.33	
8500.00	8464.05	90.00	266.28	6974.00	42.33	15.98	271.76	1107.38	1020.04	12.68	
8600.00	8564.05	90.00	266.28	6974.00	44.50	16.62	271.76	1108.07	1016.31	12.08	
8700.00	8664.05	90.00	266.28	6974.00	46.74	17.27	271.76	1108.77	1012.47	11.51	
8800.00	8764.04	90.00	266.28	6974.00	49.04	17.92	271.76	1109.46	1008.52	10.99	
8900.00	8864.04	90.00	266.28	6974.00	51.38	18.58	271.76	1110.15	1004.48	10.51	
9000.00	8964.04	90.00	266.28	6974.00	53.77	19.25	271.75	1110.84	1000.36	10.05	
9100.00	9064.04	90.00	266.28	6974.00	56.20	19.92	271.75	1111.53	996.17	9.63	
9200.00	9164.03	90.00	266.28	6974.00	58.66	20.59	271.75	1112.22	991.91	9.24	
9300.00	9264.03	90.00	266.28	6974.00	61.15	21.27	271.75	1112.91	987.60	8.88	
9400.00	9364.03	90.00	266.28	6974.00	63.66	21.95	271.75	1113.61	983.24	8.54	
9500.00	9464.03	90.00	266.28	6974.00	66.20	22.64	271.75	1114.30	978.84	8.23	
9600.00	9564.02	90.00	266.28	6974.00	68.76	23.33	271.75	1114.99	974.40	7.93	
9700.00	9664.02	90.00	266.28	6974.00	71.33	24.02	271.75	1115.68	969.93	7.65	
9800.00	9764.02	90.00	266.28	6974.00	73.92	24.71	271.75	1116.37	965.42	7.40	
9900.00	9864.02	90.00	266.28	6974.00	76.53	25.40	271.74	1117.06	960.89	7.15	
10000.00	9964.01	90.00	266.28	6974.00	79.15	26.10	271.74	1117.75	956.33	6.92	
10100.00	10064.01	90.00	266.28	6974.00	81.78	26.80	271.74	1118.45	951.75	6.71	
10200.00	10164.01	90.00	266.28	6974.00	84.42	27.50	271.74	1119.14	947.15	6.51	
10300.00	10264.01	90.00	266.28	6974.00	87.07	28.20	271.74	1119.83	942.53	6.32	
10400.00	10364.01	90.00	266.28	6974.00	89.73	28.90	271.74	1120.52	937.90	6.14	
10500.00	10464.00	90.00	266.28	6974.00	92.39	29.61	271.74	1121.21	933.25	5.96	
10600.00	10564.00	90.00	266.28	6974.00	95.07	30.31	271.74	1121.90	928.58	5.80	
10700.00	10664.00	90.00	266.28	6974.00	97.75	31.02	271.74	1122.60	923.90	5.65	
10800.00	10764.00	90.00	266.28	6974.00	100.44	31.73	271.73	1123.29	919.21	5.50	
10900.00	10863.99	90.00	266.28	6974.00	103.13	32.44	271.73	1123.98	914.51	5.37	
11000.00	10963.99	90.00	266.28	6974.00	105.83	33.15	271.73	1124.67	909.80	5.23	
11100.00	11063.99	90.00	266.28	6974.00	108.54	33.86	271.73	1125.36	905.08	5.11	
11200.00	11163.99	90.00	266.28	6974.00	111.24	34.57	271.73	1126.05	900.35	4.99	
11300.00	11263.98	90.00	266.28	6974.00	113.96	35.28	271.73	1126.74	895.61	4.87	
11400.00	11363.98	90.00	266.28	6974.00	116.67	36.00	271.73	1127.44	890.87	4.77	
11500.00	11463.98	90.00	266.28	6974.00	119.39	36.71	271.73	1128.13	886.12	4.66	
11600.00	11563.98	90.00	266.28	6974.00	122.12	37.43	271.73	1128.82	881.36	4.56	
11700.00	11663.97	90.00	266.28	6974.00	124.85	38.14	271.73	1129.51	876.59	4.47	
11800.00	11763.97	90.00	266.28	6974.00	127.58	38.86	271.72	1130.20	871.82	4.37	
11900.00	11863.97	90.00	266.28	6974.00	130.31	39.58	271.72	1130.89	867.05	4.29	
12000.00	11963.97	90.00	266.28	6974.00	133.04	40.29	271.72	1131.58	862.27	4.20	

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
12100.00	12063.96	90.00	266.28	6974.00	135.78	41.01	271.72	1132.28	857.48	4.12	
12200.00	12163.96	90.00	266.28	6974.00	138.52	41.73	271.72	1132.97	852.69	4.04	
12300.00	12263.96	90.00	266.28	6974.00	141.26	42.45	271.72	1133.66	847.90	3.97	
12400.00	12363.96	90.00	266.28	6974.00	144.01	43.17	271.72	1134.35	843.10	3.89	
12500.00	12463.95	90.00	266.28	6974.00	146.75	43.89	271.72	1135.04	838.29	3.82	
12600.00	12563.95	90.00	266.28	6974.00	149.50	44.61	271.72	1135.73	833.49	3.76	
12700.00	12663.95	90.00	266.28	6974.00	152.25	45.33	271.71	1136.43	828.68	3.69	
12800.00	12763.95	90.00	266.28	6974.00	155.00	46.05	271.71	1137.12	823.87	3.63	
12900.00	12863.95	90.00	266.28	6974.00	157.76	46.77	271.71	1137.81	819.05	3.57	
13000.00	12963.94	90.00	266.28	6974.00	160.51	47.49	271.71	1138.50	814.23	3.51	
13100.00	13063.94	90.00	266.28	6974.00	163.27	48.22	271.71	1139.19	809.41	3.45	
13200.00	13163.94	90.00	266.28	6974.00	166.03	48.94	271.71	1139.88	804.59	3.40	
13300.00	13263.94	90.00	266.28	6974.00	168.78	49.66	271.71	1140.57	799.76	3.35	
13400.00	13363.93	90.00	266.28	6974.00	171.54	50.39	271.71	1141.27	794.93	3.30	
13500.00	13463.93	90.00	266.28	6974.00	174.30	51.11	271.71	1141.96	790.10	3.25	
13600.00	13563.93	90.00	266.28	6974.00	177.07	51.83	271.71	1142.65	785.27	3.20	
13700.00	13663.93	90.00	266.28	6974.00	179.83	52.56	271.70	1143.34	780.44	3.15	
13800.00	13763.92	90.00	266.28	6974.00	182.59	53.28	271.70	1144.03	775.60	3.11	
13900.00	13863.92	90.00	266.28	6974.00	185.36	54.01	271.70	1144.72	770.76	3.06	
14000.00	13963.92	90.00	266.28	6974.00	188.12	54.73	271.70	1145.41	765.92	3.02	
14100.00	14063.92	90.00	266.28	6974.00	190.89	55.46	271.70	1146.11	761.08	2.98	
14200.00	14163.91	90.00	266.28	6974.00	193.66	56.18	271.70	1146.80	756.23	2.94	
14300.00	14263.91	90.00	266.28	6974.00	196.43	56.91	271.70	1147.49	751.39	2.90	
14400.00	14363.91	90.00	266.28	6974.00	199.20	57.63	271.70	1148.18	746.54	2.86	
14500.00	14463.91	90.00	266.28	6974.00	201.97	58.36	271.70	1148.87	741.69	2.82	
14600.00	14563.90	90.00	266.28	6974.00	204.74	59.08	271.69	1149.56	736.84	2.79	
14700.00	14663.90	90.00	266.28	6974.00	207.51	59.81	271.69	1150.25	731.99	2.75	
14800.00	14763.90	90.00	266.28	6974.00	210.28	60.54	271.69	1150.95	727.14	2.72	
14900.00	14863.90	90.00	266.28	6974.00	213.05	61.26	271.69	1151.64	722.29	2.68	
15000.00	14963.90	90.00	266.28	6974.00	215.83	61.99	271.69	1152.33	717.43	2.65	
15100.00	15063.89	90.00	266.28	6974.00	218.60	62.71	271.69	1153.02	712.58	2.62	
15200.00	15163.89	90.00	266.28	6974.00	221.37	63.44	271.69	1153.71	707.72	2.59	
15300.00	15263.89	90.00	266.28	6974.00	224.15	64.17	271.69	1154.40	702.86	2.56	
15400.00	15286.68	90.00	266.28	6974.00	224.78	64.33	271.69	1157.67	703.23	2.55	
15500.00	15286.68	90.00	266.28	6974.00	224.78	64.33	271.69	1169.29	715.70	2.58	
15501.26	15286.68	90.00	266.28	6974.00	224.78	64.33	271.69	1169.49	715.93	2.58	
Secondary Well: Goetzel 13N-30A-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	0.00	0.00	0.00	180.08	119.86	119.13	163.45	
100.00	100.00	0.00	0.00	100.00	0.11	0.11	180.08	119.86	118.91	125.65	
200.00	200.00	0.00	0.00	200.00	0.34	0.34	180.08	119.86	118.46	85.40	
300.00	300.00	0.00	0.00	300.00	0.56	0.56	180.08	119.86	118.01	64.68	
400.00	400.00	0.00	0.00	400.00	0.79	0.79	180.08	119.86	117.56	52.05	
500.00	500.00	0.00	0.00	500.00	1.01	1.01	180.08	119.86	117.11	43.55	
600.00	600.00	0.00	0.00	600.00	1.24	1.24	180.08	119.86	116.66	37.44	
700.00	700.00	0.00	0.00	700.00	1.46	1.46	180.08	119.86	116.21	32.83	
800.00	798.64	0.97	131.86	798.64	1.67	1.67	179.94	120.14	116.06	29.40	
900.00	895.81	2.92	131.86	895.74	1.85	1.85	178.79	122.44	117.95	27.27	
1000.00	992.64	4.85	131.86	992.35	2.05	2.03	176.62	127.16	122.27	25.98	
1100.00	1088.92	6.78	131.86	1088.13	2.26	2.22	173.69	134.56	129.24	25.31	
1200.00	1184.44	8.69	131.86	1182.77	2.51	2.42	170.27	144.90	139.13	25.14	
1300.00	1278.99	10.58	131.86	1275.99	2.79	2.62	166.67	158.41	152.21	25.55	
1400.00	1372.39	12.45	131.86	1367.51	3.11	2.82	163.13	175.25	168.60	26.36	
1500.00	1464.47	14.29	131.86	1457.09	3.47	3.02	159.80	195.50	188.40	27.56	
1600.00	1555.07	16.10	131.86	1544.51	3.89	3.23	156.80	219.14	211.62	29.15	
1700.00	1644.04	17.88	131.86	1629.60	4.35	3.45	154.13	246.11	238.16	30.96	

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
1800.00	1734.67	18.97	131.86	1715.47	4.87	3.68	58.78	275.26	266.89	32.88	
1900.00	1830.42	18.97	131.86	1806.02	5.45	3.94	57.04	303.44	294.62	34.41	
2000.00	1926.83	18.97	131.86	1897.19	6.06	4.21	56.08	329.87	320.55	35.41	
2100.00	2023.76	18.97	131.86	1988.86	6.68	4.49	55.71	354.42	344.59	36.04	
2200.00	2121.10	18.97	131.86	2080.92	7.31	4.77	55.83	377.08	366.67	36.24	
2300.00	2218.74	18.97	131.86	2173.25	7.96	5.06	56.34	397.88	386.85	36.09	
2400.00	2316.56	18.97	131.86	2265.76	8.61	5.35	57.20	416.91	405.21	35.63	
2500.00	2414.43	18.97	131.86	2358.31	9.26	5.65	58.38	434.31	421.86	34.90	
2600.00	2512.26	18.97	131.86	2450.82	9.92	5.94	59.93	450.50	437.24	33.98	
2700.00	2610.07	18.97	131.86	2543.33	10.58	6.24	61.54	466.88	452.70	32.93	
2800.00	2707.89	18.97	131.86	2635.83	11.24	6.54	63.04	483.60	468.46	31.95	
2900.00	2805.71	18.97	131.86	2728.34	11.90	6.84	64.43	500.62	484.50	31.06	
3000.00	2903.53	18.97	131.86	2820.84	12.57	7.14	65.74	517.92	500.80	30.26	
3100.00	3001.34	18.97	131.86	2913.35	13.24	7.45	66.96	535.46	517.33	29.53	
3200.00	3099.16	18.97	131.86	3005.85	13.90	7.75	68.11	553.23	534.03	28.81	
3300.00	3196.98	18.97	131.86	3098.35	14.57	8.05	69.18	571.20	550.92	28.17	
3400.00	3294.79	18.97	131.86	3190.86	15.24	8.36	70.19	589.36	567.97	27.55	
3500.00	3392.61	18.97	131.86	3283.36	15.91	8.67	71.14	607.69	585.17	26.99	
3600.00	3490.43	18.97	131.86	3375.87	16.59	8.97	72.04	626.17	602.52	26.48	
3700.00	3588.25	18.97	131.86	3468.37	17.26	9.28	72.88	644.78	620.01	26.02	
3800.00	3686.06	18.97	131.86	3560.88	17.93	9.59	73.68	663.53	637.62	25.60	
3900.00	3783.88	18.97	131.86	3653.38	18.61	9.90	74.43	682.40	655.34	25.22	
4000.00	3881.70	18.97	131.86	3745.89	19.28	10.21	75.14	701.37	673.15	24.85	
4100.00	3979.51	18.97	131.86	3838.39	19.95	10.52	75.81	720.44	691.03	24.50	
4200.00	4077.33	18.97	131.86	3930.89	20.63	10.83	76.45	739.61	709.01	24.17	
4300.00	4175.15	18.97	131.86	4023.40	21.30	11.14	77.06	758.86	727.06	23.87	
4400.00	4272.97	18.97	131.86	4115.90	21.98	11.45	77.64	778.18	745.20	23.59	
4500.00	4370.78	18.97	131.86	4208.41	22.65	11.76	78.19	797.58	763.41	23.34	
4600.00	4468.60	18.97	131.86	4300.91	23.33	12.07	78.72	817.05	781.68	23.10	
4700.00	4566.42	18.97	131.86	4393.42	24.00	12.38	79.21	836.59	800.02	22.88	
4800.00	4664.23	18.97	131.86	4485.92	24.68	12.69	79.69	856.18	818.41	22.67	
4900.00	4762.05	18.97	131.86	4578.43	25.36	13.00	80.15	875.82	836.86	22.48	
5000.00	4859.87	18.97	131.86	4670.93	26.03	13.31	80.58	895.52	855.36	22.30	
5100.00	4957.69	18.97	131.86	4763.43	26.71	13.63	81.00	915.26	873.91	22.13	
5200.00	5055.50	18.97	131.86	4855.94	27.39	13.94	81.40	935.05	892.50	21.98	
5300.00	5153.32	18.97	131.86	4948.44	28.06	14.25	81.78	954.89	911.14	21.83	
5400.00	5251.14	18.97	131.86	5040.95	28.74	14.56	82.15	974.76	929.80	21.68	
5500.00	5348.96	18.97	131.86	5133.45	29.42	14.87	82.50	994.67	948.50	21.55	
5600.00	5446.77	18.97	131.86	5225.96	30.10	15.19	82.84	1014.61	967.23	21.42	
5700.00	5544.59	18.97	131.86	5318.46	30.77	15.50	83.17	1034.58	986.00	21.29	
5800.00	5642.41	18.97	131.86	5410.97	31.45	15.81	83.48	1054.59	1004.79	21.18	
5900.00	5740.22	18.97	131.86	5503.47	32.13	16.12	83.78	1074.63	1023.62	21.07	
6000.00	5838.04	18.97	131.86	5595.97	32.81	16.44	84.08	1094.69	1042.47	20.96	
6100.00	5935.86	18.97	131.86	5688.48	33.48	16.75	84.36	1114.78	1061.35	20.86	
6200.00	6033.68	18.97	131.86	5780.98	34.16	17.06	84.63	1134.90	1080.25	20.77	
6300.00	6131.54	18.97	131.86	5873.53	34.84	17.38	83.98	1155.01	1099.21	20.70	
6400.00	6226.23	17.67	136.61	5963.17	35.44	17.68	74.39	1174.77	1118.33	20.81	
6500.00	6313.66	14.34	159.17	6047.28	35.66	17.87	309.92	1194.52	1137.88	21.09	
6600.00	6402.22	13.98	188.40	6133.26	35.44	17.92	285.14	1214.16	1157.66	21.49	
6700.00	6492.21	16.91	213.39	6220.09	34.84	17.79	281.85	1233.35	1177.24	21.98	
6800.00	6583.97	21.97	229.53	6306.64	33.90	17.49	280.96	1251.78	1196.19	22.52	
6900.00	6677.81	28.17	239.62	6391.64	32.69	16.96	280.72	1269.12	1214.14	23.08	
7000.00	6774.07	35.03	246.34	6473.61	31.30	16.18	280.68	1285.08	1230.70	23.63	
7100.00	6873.05	42.35	251.18	6550.84	29.88	15.11	280.67	1299.35	1245.46	24.11	
7200.00	6975.00	50.05	254.91	6621.36	28.62	13.71	280.61	1311.66	1258.02	24.45	
7300.00	7080.10	58.09	257.96	6682.99	27.71	12.07	280.46	1321.74	1267.89	24.54	
7400.00	7188.42	66.44	260.59	6733.37	27.30	10.49	280.20	1329.36	1274.82	24.37	
7500.00	7299.92	75.07	262.97	6770.09	27.46	9.60	279.83	1334.32	1278.57	23.93	

5D Anti-Collision Report

Secondary Well: Goetzel 13N-30A-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
7600.00	7414.36	83.96	265.22	6790.90	28.21	10.14	279.35	1336.46	1278.94	23.24	
7700.00	7525.57	90.00	266.70	6795.00	29.28	11.51	279.17	1336.71	1277.03	22.40	
7800.00	7625.57	90.00	266.70	6795.00	30.37	12.03	279.17	1336.68	1274.68	21.56	
7900.00	7725.57	90.00	266.70	6795.00	31.66	12.58	279.17	1336.66	1271.94	20.65	
8000.00	7825.57	90.00	266.70	6795.00	33.13	13.15	279.17	1336.63	1268.77	19.70	
8100.00	7925.57	90.00	266.70	6795.00	34.77	13.75	279.17	1336.61	1265.38	18.77	
8200.00	8025.57	90.00	266.70	6795.00	36.54	14.36	279.17	1336.58	1261.81	17.88	
8300.00	8125.57	90.00	266.70	6795.00	38.44	14.99	279.17	1336.55	1257.82	16.97	
8400.00	8225.57	90.00	266.70	6795.00	40.44	15.63	279.17	1336.53	1253.84	16.16	
8500.00	8325.57	90.00	266.70	6795.00	42.52	16.28	279.17	1336.50	1249.58	15.38	
8600.00	8425.57	90.00	266.70	6795.00	44.69	16.94	279.17	1336.47	1245.15	14.63	
8700.00	8525.57	90.00	266.70	6795.00	46.92	17.60	279.17	1336.45	1240.64	13.95	
8800.00	8625.57	90.00	266.70	6795.00	49.21	18.27	279.17	1336.42	1236.04	13.31	
8900.00	8725.57	90.00	266.70	6795.00	51.55	18.94	279.17	1336.40	1231.34	12.72	
9000.00	8825.57	90.00	266.70	6795.00	53.94	19.62	279.17	1336.37	1226.57	12.17	
9100.00	8925.57	90.00	266.70	6795.00	56.36	20.30	279.17	1336.34	1221.73	11.66	
9200.00	9025.57	90.00	266.70	6795.00	58.82	20.99	279.17	1336.32	1216.83	11.18	
9300.00	9125.57	90.00	266.70	6795.00	61.30	21.68	279.17	1336.29	1211.87	10.74	
9400.00	9225.57	90.00	266.70	6795.00	63.81	22.37	279.17	1336.26	1206.87	10.33	
9500.00	9325.57	90.00	266.70	6795.00	66.35	23.06	279.17	1336.24	1201.82	9.94	
9600.00	9425.57	90.00	266.70	6795.00	68.90	23.75	279.17	1336.21	1196.73	9.58	
9700.00	9525.57	90.00	266.70	6795.00	71.48	24.45	279.17	1336.19	1191.61	9.24	
9800.00	9625.57	90.00	266.70	6795.00	74.07	25.15	279.17	1336.16	1186.45	8.93	
9900.00	9725.57	90.00	266.70	6795.00	76.67	25.85	279.17	1336.13	1181.27	8.63	
10000.00	9825.57	90.00	266.70	6795.00	79.29	26.55	279.17	1336.11	1176.07	8.35	
10100.00	9925.57	90.00	266.70	6795.00	81.92	27.26	279.17	1336.08	1170.84	8.09	
10200.00	10025.57	90.00	266.70	6795.00	84.56	27.96	279.17	1336.05	1165.59	7.84	
10300.00	10125.57	90.00	266.70	6795.00	87.21	28.67	279.17	1336.03	1160.33	7.60	
10400.00	10225.57	90.00	266.70	6795.00	89.87	29.37	279.17	1336.00	1155.04	7.38	
10500.00	10325.57	90.00	266.70	6795.00	92.54	30.08	279.17	1335.98	1149.75	7.17	
10600.00	10425.57	90.00	266.70	6795.00	95.21	30.79	279.17	1335.95	1144.43	6.98	
10700.00	10525.57	90.00	266.70	6795.00	97.89	31.50	279.17	1335.92	1139.11	6.79	
10800.00	10625.57	90.00	266.70	6795.00	100.58	32.21	279.17	1335.90	1133.77	6.61	
10900.00	10725.57	90.00	266.70	6795.00	103.28	32.93	279.17	1335.87	1128.42	6.44	
11000.00	10825.57	90.00	266.70	6795.00	105.97	33.64	279.17	1335.84	1123.06	6.28	
11100.00	10925.57	90.00	266.70	6795.00	108.68	34.35	279.18	1335.82	1117.69	6.12	
11200.00	11025.57	90.00	266.70	6795.00	111.39	35.07	279.18	1335.79	1112.32	5.98	
11300.00	11125.57	90.00	266.70	6795.00	114.10	35.78	279.18	1335.77	1106.93	5.84	
11400.00	11225.57	90.00	266.70	6795.00	116.82	36.50	279.18	1335.74	1101.54	5.70	
11500.00	11325.57	90.00	266.70	6795.00	119.54	37.22	279.18	1335.71	1096.14	5.58	
11600.00	11425.57	90.00	266.70	6795.00	122.27	37.93	279.18	1335.69	1090.73	5.45	
11700.00	11525.57	90.00	266.70	6795.00	124.99	38.65	279.18	1335.66	1085.32	5.34	
11800.00	11625.57	90.00	266.70	6795.00	127.72	39.37	279.18	1335.63	1079.90	5.22	
11900.00	11725.57	90.00	266.70	6795.00	130.46	40.09	279.18	1335.61	1074.48	5.11	
12000.00	11825.57	90.00	266.70	6795.00	133.20	40.81	279.18	1335.58	1069.05	5.01	
12100.00	11925.57	90.00	266.70	6795.00	135.93	41.53	279.18	1335.56	1063.61	4.91	
12200.00	12025.57	90.00	266.70	6795.00	138.68	42.25	279.18	1335.53	1058.17	4.82	
12300.00	12125.57	90.00	266.70	6795.00	141.42	42.97	279.18	1335.50	1052.73	4.72	
12400.00	12225.56	90.00	266.70	6795.00	144.17	43.69	279.18	1335.48	1047.28	4.63	
12500.00	12325.56	90.00	266.70	6795.00	146.91	44.41	279.18	1335.45	1041.83	4.55	
12600.00	12425.56	90.00	266.70	6795.00	149.66	45.13	279.18	1335.42	1036.38	4.47	
12700.00	12525.56	90.00	266.70	6795.00	152.41	45.85	279.18	1335.40	1030.92	4.39	
12800.00	12625.56	90.00	266.70	6795.00	155.17	46.58	279.18	1335.37	1025.46	4.31	
12900.00	12725.56	90.00	266.70	6795.00	157.92	47.30	279.18	1335.35	1020.00	4.23	
13000.00	12825.56	90.00	266.70	6795.00	160.68	48.02	279.18	1335.32	1014.53	4.16	
13100.00	12925.56	90.00	266.70	6795.00	163.43	48.75	279.18	1335.29	1009.06	4.09	
13200.00	13025.56	90.00	266.70	6795.00	166.19	49.47	279.18	1335.27	1003.59	4.03	
13300.00	13125.56	90.00	266.70	6795.00	168.95	50.19	279.18	1335.24	998.12	3.96	

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
13400.00	13225.56	90.00	266.70	6795.00	171.72	50.92	279.18	1335.21	992.64	3.90	
13500.00	13325.56	90.00	266.70	6795.00	174.48	51.64	279.18	1335.19	987.16	3.84	
13600.00	13425.56	90.00	266.70	6795.00	177.24	52.37	279.18	1335.16	981.68	3.78	
13700.00	13525.56	90.00	266.70	6795.00	180.01	53.09	279.18	1335.14	976.20	3.72	
13800.00	13625.56	90.00	266.70	6795.00	182.77	53.82	279.18	1335.11	970.71	3.66	
13900.00	13725.56	90.00	266.70	6795.00	185.54	54.54	279.18	1335.08	965.23	3.61	
14000.00	13825.56	90.00	266.70	6795.00	188.31	55.27	279.18	1335.06	959.74	3.56	
14100.00	13925.56	90.00	266.70	6795.00	191.07	55.99	279.18	1335.03	954.25	3.51	
14200.00	14025.56	90.00	266.70	6795.00	193.84	56.72	279.18	1335.00	948.75	3.46	
14300.00	14125.56	90.00	266.70	6795.00	196.61	57.44	279.18	1334.98	943.26	3.41	
14400.00	14225.56	90.00	266.70	6795.00	199.39	58.17	279.18	1334.95	937.77	3.36	
14500.00	14325.56	90.00	266.70	6795.00	202.16	58.90	279.18	1334.93	932.27	3.32	
14600.00	14425.56	90.00	266.70	6795.00	204.93	59.62	279.18	1334.90	926.77	3.27	
14700.00	14525.56	90.00	266.70	6795.00	207.70	60.35	279.18	1334.87	921.27	3.23	
14800.00	14625.56	90.00	266.70	6795.00	210.48	61.08	279.18	1334.85	915.77	3.19	
14900.00	14725.56	90.00	266.70	6795.00	213.25	61.80	279.18	1334.82	910.27	3.14	
15000.00	14825.56	90.00	266.70	6795.00	216.03	62.53	279.18	1334.79	904.77	3.10	
15100.00	14925.56	90.00	266.70	6795.00	218.80	63.26	279.18	1334.77	899.26	3.06	
15200.00	15025.56	90.00	266.70	6795.00	221.58	63.99	279.18	1334.74	893.76	3.03	
15300.00	15125.56	90.00	266.70	6795.00	224.35	64.71	279.18	1334.72	888.25	2.99	
15400.00	15136.85	90.00	266.70	6795.00	224.67	64.80	279.18	1337.64	888.42	2.98	
15500.00	15136.85	90.00	266.70	6795.00	224.67	64.80	279.18	1347.94	898.67	3.00	
15501.26	15136.85	90.00	266.70	6795.00	224.67	64.80	279.18	1348.12	898.86	3.00	
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	180.01	139.90	139.16	190.77	
100.00	100.00	0.00	0.00	100.00	0.11	0.11	180.01	139.90	138.94	146.65	
200.00	200.00	0.00	0.00	200.00	0.34	0.34	180.01	139.90	138.49	99.68	
300.00	300.00	0.00	0.00	300.00	0.56	0.56	180.01	139.90	138.04	75.49	
400.00	400.00	0.00	0.00	400.00	0.79	0.79	180.01	139.90	137.59	60.76	
500.00	500.00	0.00	0.00	500.00	1.01	1.01	180.01	139.90	137.14	50.83	
600.00	600.00	0.00	0.00	600.00	1.24	1.24	180.01	139.90	136.69	43.69	
700.00	696.45	1.93	138.18	696.43	1.43	1.43	179.57	141.16	137.54	39.03	
800.00	792.69	3.85	138.18	792.54	1.61	1.61	178.30	144.98	140.95	36.02	
900.00	888.49	5.77	138.18	888.00	1.82	1.80	176.33	151.50	147.06	34.15	
1000.00	983.64	7.67	138.18	982.50	2.05	1.99	173.87	160.88	156.01	33.01	
1100.00	1077.96	9.56	138.18	1075.74	2.32	2.19	171.11	173.31	167.99	32.59	
1200.00	1171.24	11.42	138.18	1167.46	2.62	2.39	168.27	188.91	183.15	32.81	
1300.00	1263.31	13.27	138.18	1257.40	2.97	2.60	165.49	207.77	201.57	33.49	
1400.00	1354.00	15.08	138.18	1345.33	3.37	2.81	162.87	229.92	223.26	34.55	
1500.00	1443.18	16.86	138.18	1431.06	3.82	3.03	160.49	255.32	248.22	35.97	
1600.00	1530.70	18.61	138.18	1514.41	4.30	3.25	158.34	283.90	276.38	37.76	
1700.00	1620.97	19.47	138.18	1599.63	4.86	3.49	156.37	315.24	307.26	39.52	
1800.00	1715.64	19.47	138.18	1688.89	5.47	3.76	61.60	346.43	337.99	41.01	
1900.00	1811.02	19.47	138.18	1778.80	6.09	4.04	60.33	376.17	367.23	42.09	
2000.00	1906.97	19.47	138.18	1869.27	6.73	4.32	59.65	404.28	394.84	42.83	
2100.00	2003.40	19.47	138.18	1960.18	7.38	4.61	59.44	430.70	420.73	43.22	
2200.00	2100.17	19.47	138.18	2051.42	8.04	4.90	59.62	455.43	444.91	43.29	
2300.00	2197.18	19.47	138.18	2142.88	8.70	5.20	60.14	478.53	467.39	42.97	
2400.00	2294.30	19.47	138.18	2234.45	9.37	5.50	60.96	500.10	488.27	42.29	
2500.00	2391.42	19.47	138.18	2326.01	10.04	5.80	62.04	520.28	507.68	41.30	
2600.00	2488.44	19.47	138.18	2417.49	10.71	6.10	63.49	539.45	526.00	40.11	
2700.00	2585.45	19.47	138.18	2508.95	11.38	6.40	65.02	558.87	544.52	38.95	
2800.00	2682.46	19.47	138.18	2600.41	12.06	6.71	66.45	578.65	563.34	37.80	
2900.00	2779.47	19.47	138.18	2691.87	12.74	7.02	67.79	598.77	582.48	36.76	
3000.00	2876.48	19.47	138.18	2783.33	13.41	7.32	69.04	619.18	601.89	35.82	

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
3100.00	2973.48	19.47	138.18	2874.80	14.09	7.63	70.21	639.86	621.55	34.95	
3200.00	3070.49	19.47	138.18	2966.26	14.77	7.94	71.31	660.79	641.43	34.13	
3300.00	3167.50	19.47	138.18	3057.72	15.45	8.25	72.35	681.94	661.49	33.34	
3400.00	3264.51	19.47	138.18	3149.18	16.13	8.56	73.32	703.29	681.73	32.61	
3500.00	3361.52	19.47	138.18	3240.64	16.81	8.87	74.23	724.83	702.14	31.95	
3600.00	3458.53	19.47	138.18	3332.10	17.49	9.18	75.09	746.53	722.73	31.36	
3700.00	3555.54	19.47	138.18	3423.56	18.17	9.49	75.91	768.39	743.46	30.82	
3800.00	3652.54	19.47	138.18	3515.02	18.86	9.80	76.68	790.39	764.32	30.32	
3900.00	3749.55	19.47	138.18	3606.48	19.54	10.11	77.41	812.52	785.32	29.87	
4000.00	3846.56	19.47	138.18	3697.94	20.22	10.42	78.10	834.77	806.43	29.46	
4100.00	3943.57	19.47	138.18	3789.40	20.90	10.74	78.75	857.12	827.65	29.08	
4200.00	4040.58	19.47	138.18	3880.87	21.59	11.05	79.37	879.58	848.97	28.73	
4300.00	4137.59	19.47	138.18	3972.33	22.27	11.36	79.96	902.14	870.36	28.39	
4400.00	4234.60	19.47	138.18	4063.79	22.95	11.67	80.52	924.78	891.82	28.06	
4500.00	4331.60	19.47	138.18	4155.25	23.64	11.99	81.06	947.50	913.36	27.75	
4600.00	4428.61	19.47	138.18	4246.71	24.32	12.30	81.57	970.30	934.98	27.47	
4700.00	4525.62	19.47	138.18	4338.17	25.00	12.61	82.06	993.17	956.66	27.20	
4800.00	4622.63	19.47	138.18	4429.63	25.69	12.93	82.52	1016.10	978.39	26.94	
4900.00	4719.64	19.47	138.18	4521.09	26.37	13.24	82.97	1039.09	1000.18	26.70	
5000.00	4816.65	19.47	138.18	4612.55	27.06	13.56	83.39	1062.14	1022.03	26.48	
5100.00	4913.66	19.47	138.18	4704.01	27.74	13.87	83.80	1085.25	1043.94	26.27	
5200.00	5010.66	19.47	138.18	4795.47	28.43	14.18	84.19	1108.40	1065.89	26.07	
5300.00	5107.67	19.47	138.18	4886.94	29.11	14.50	84.56	1131.61	1087.89	25.89	
5400.00	5204.68	19.47	138.18	4978.40	29.80	14.81	84.92	1154.85	1109.94	25.71	
5500.00	5301.69	19.47	138.18	5069.86	30.48	15.13	85.27	1178.14	1132.03	25.55	
5600.00	5398.70	19.47	138.18	5161.32	31.17	15.44	85.60	1201.47	1154.15	25.40	
5700.00	5495.71	19.47	138.18	5252.78	31.85	15.76	85.92	1224.83	1176.32	25.25	
5800.00	5592.72	19.47	138.18	5344.24	32.54	16.07	86.23	1248.23	1198.52	25.11	
5900.00	5689.72	19.47	138.18	5435.70	33.22	16.39	86.52	1271.66	1220.75	24.98	
6000.00	5786.73	19.47	138.18	5527.16	33.91	16.70	86.81	1295.12	1243.01	24.85	
6100.00	5883.74	19.47	138.18	5618.62	34.59	17.02	87.09	1318.61	1265.31	24.74	
6200.00	5980.75	19.47	138.18	5710.08	35.28	17.33	87.35	1342.13	1287.63	24.62	
6300.00	6077.83	19.47	138.18	5801.61	35.96	17.65	86.83	1365.59	1309.95	24.54	
6400.00	6174.94	19.47	138.18	5893.17	36.65	17.96	77.52	1388.10	1331.73	24.63	
6500.00	6270.42	19.47	138.18	5983.19	37.32	18.27	312.86	1409.30	1352.57	24.84	
6600.00	6362.42	19.47	138.18	6069.93	37.98	18.57	287.42	1429.34	1372.63	25.21	
6700.00	6449.15	19.47	138.18	6151.70	38.59	18.85	283.17	1448.73	1392.42	25.73	
6800.00	6528.92	19.47	138.18	6226.91	39.15	19.11	281.24	1468.19	1412.58	26.40	
6900.00	6605.27	16.58	154.39	6299.51	39.46	19.33	280.05	1488.48	1433.83	27.24	
7000.00	6687.49	15.34	178.05	6378.64	39.34	19.46	279.10	1509.68	1455.91	28.08	
7100.00	6778.24	17.01	203.64	6465.91	38.75	19.45	278.17	1531.56	1478.67	28.96	
7200.00	6881.54	21.82	224.10	6563.42	37.56	19.26	277.09	1553.77	1501.62	29.79	
7300.00	7003.87	29.49	238.31	6673.70	35.59	18.73	275.71	1575.72	1523.90	30.41	
7400.00	7155.63	40.22	248.39	6798.16	32.71	17.49	273.84	1596.38	1544.35	30.68	
7500.00	7352.34	54.88	256.20	6930.68	29.51	14.61	271.44	1613.97	1560.83	30.37	
7600.00	7609.48	74.54	262.97	7040.09	28.34	10.35	268.87	1625.43	1569.37	29.00	
7700.00	7844.20	90.00	267.32	7067.00	30.05	12.05	267.92	1627.07	1566.91	27.05	
7800.00	7944.19	90.00	267.32	7067.00	31.10	12.56	267.92	1625.96	1563.47	26.02	
7900.00	8044.19	90.00	267.32	7067.00	32.35	13.11	267.92	1624.85	1559.69	24.94	
8000.00	8144.18	90.00	267.32	7067.00	33.77	13.69	267.92	1623.73	1555.54	23.81	
8100.00	8244.17	90.00	267.32	7067.00	35.36	14.30	267.92	1622.62	1550.99	22.65	
8200.00	8344.17	90.00	267.32	7067.00	37.08	14.92	267.91	1621.51	1546.25	21.54	
8300.00	8444.16	90.00	267.32	7067.00	38.93	15.56	267.91	1620.40	1541.25	20.47	
8400.00	8544.15	90.00	267.32	7067.00	40.89	16.21	267.91	1619.29	1536.07	19.46	
8500.00	8644.15	90.00	267.32	7067.00	42.94	16.88	267.91	1618.18	1530.84	18.53	
8600.00	8744.14	90.00	267.32	7067.00	45.07	17.54	267.91	1617.07	1525.23	17.61	
8700.00	8844.14	90.00	267.32	7067.00	47.26	18.22	267.91	1615.96	1519.61	16.77	
8800.00	8944.13	90.00	267.32	7067.00	49.52	18.90	267.91	1614.84	1513.91	16.00	

5D Anti-Collision Report

Secondary Well: Goetzel 13C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
8900.00	9044.12	90.00	267.32	7067.00	51.84	19.58	267.90	1613.73	1508.11	15.28	
9000.00	9144.12	90.00	267.32	7067.00	54.20	20.26	267.90	1612.62	1502.23	14.61	
9100.00	9244.11	90.00	267.32	7067.00	56.60	20.95	267.90	1611.51	1496.26	13.98	
9200.00	9344.10	90.00	267.32	7067.00	59.03	21.64	267.90	1610.40	1490.22	13.40	
9300.00	9444.10	90.00	267.32	7067.00	61.50	22.34	267.90	1609.29	1484.12	12.86	
9400.00	9544.09	90.00	267.32	7067.00	63.99	23.03	267.90	1608.18	1477.97	12.35	
9500.00	9644.09	90.00	267.32	7067.00	66.51	23.73	267.90	1607.07	1471.78	11.88	
9600.00	9744.08	90.00	267.32	7067.00	69.05	24.43	267.89	1605.96	1465.54	11.44	
9700.00	9844.07	90.00	267.32	7067.00	71.61	25.13	267.89	1604.84	1459.27	11.02	
9800.00	9944.07	90.00	267.32	7067.00	74.19	25.83	267.89	1603.73	1452.97	10.64	
9900.00	10044.06	90.00	267.32	7067.00	76.79	26.53	267.89	1602.62	1446.63	10.27	
10000.00	10144.06	90.00	267.32	7067.00	79.39	27.23	267.89	1601.51	1440.28	9.93	
10100.00	10244.05	90.00	267.32	7067.00	82.01	27.94	267.89	1600.40	1433.90	9.61	
10200.00	10344.04	90.00	267.32	7067.00	84.65	28.65	267.89	1599.29	1427.49	9.31	
10300.00	10444.04	90.00	267.32	7067.00	87.29	29.35	267.88	1598.18	1421.07	9.02	
10400.00	10544.03	90.00	267.32	7067.00	89.94	30.06	267.88	1597.07	1414.64	8.75	
10500.00	10644.02	90.00	267.32	7067.00	92.60	30.77	267.88	1595.95	1408.18	8.50	
10600.00	10744.02	90.00	267.32	7067.00	95.27	31.48	267.88	1594.84	1401.71	8.26	
10700.00	10844.01	90.00	267.32	7067.00	97.95	32.19	267.88	1593.73	1395.23	8.03	
10800.00	10944.01	90.00	267.32	7067.00	100.63	32.90	267.88	1592.62	1388.74	7.81	
10900.00	11044.00	90.00	267.32	7067.00	103.32	33.62	267.88	1591.51	1382.24	7.60	
11000.00	11143.99	90.00	267.32	7067.00	106.02	34.33	267.87	1590.40	1375.72	7.41	
11100.00	11243.99	90.00	267.32	7067.00	108.72	35.04	267.87	1589.29	1369.20	7.22	
11200.00	11343.98	90.00	267.32	7067.00	111.43	35.76	267.87	1588.18	1362.66	7.04	
11300.00	11443.97	90.00	267.32	7067.00	114.14	36.47	267.87	1587.07	1356.12	6.87	
11400.00	11543.97	90.00	267.32	7067.00	116.85	37.19	267.87	1585.95	1349.57	6.71	
11500.00	11643.96	90.00	267.32	7067.00	119.57	37.91	267.87	1584.84	1343.02	6.55	
11600.00	11743.96	90.00	267.32	7067.00	122.29	38.62	267.86	1583.73	1336.45	6.40	
11700.00	11843.95	90.00	267.32	7067.00	125.02	39.34	267.86	1582.62	1329.89	6.26	
11800.00	11943.94	90.00	267.32	7067.00	127.75	40.06	267.86	1581.51	1323.31	6.13	
11900.00	12043.94	90.00	267.32	7067.00	130.48	40.78	267.86	1580.40	1316.73	5.99	
12000.00	12143.93	90.00	267.32	7067.00	133.22	41.50	267.86	1579.29	1310.15	5.87	
12100.00	12243.93	90.00	267.32	7067.00	135.95	42.22	267.86	1578.18	1303.55	5.75	
12200.00	12343.92	90.00	267.32	7067.00	138.70	42.94	267.86	1577.07	1296.96	5.63	
12300.00	12443.91	90.00	267.32	7067.00	141.44	43.66	267.85	1575.95	1290.36	5.52	
12400.00	12543.91	90.00	267.32	7067.00	144.18	44.38	267.85	1574.84	1283.76	5.41	
12500.00	12643.90	90.00	267.32	7067.00	146.93	45.10	267.85	1573.73	1277.15	5.31	
12600.00	12743.89	90.00	267.32	7067.00	149.68	45.82	267.85	1572.62	1270.54	5.21	
12700.00	12843.89	90.00	267.32	7067.00	152.43	46.54	267.85	1571.51	1263.93	5.11	
12800.00	12943.88	90.00	267.32	7067.00	155.18	47.27	267.85	1570.40	1257.31	5.02	
12900.00	13043.88	90.00	267.32	7067.00	157.94	47.99	267.85	1569.29	1250.69	4.93	
13000.00	13143.87	90.00	267.32	7067.00	160.69	48.71	267.84	1568.18	1244.07	4.84	
13100.00	13243.86	90.00	267.32	7067.00	163.45	49.43	267.84	1567.06	1237.44	4.75	
13200.00	13343.86	90.00	267.32	7067.00	166.21	50.16	267.84	1565.95	1230.81	4.67	
13300.00	13443.85	90.00	267.32	7067.00	168.97	50.88	267.84	1564.84	1224.18	4.59	
13400.00	13543.85	90.00	267.32	7067.00	171.73	51.60	267.84	1563.73	1217.55	4.52	
13500.00	13643.84	90.00	267.32	7067.00	174.50	52.33	267.84	1562.62	1210.91	4.44	
13600.00	13743.83	90.00	267.32	7067.00	177.26	53.05	267.83	1561.51	1204.28	4.37	
13700.00	13843.83	90.00	267.32	7067.00	180.03	53.78	267.83	1560.40	1197.64	4.30	
13800.00	13943.82	90.00	267.32	7067.00	182.79	54.50	267.83	1559.29	1190.99	4.23	
13900.00	14043.81	90.00	267.32	7067.00	185.56	55.23	267.83	1558.18	1184.35	4.17	
14000.00	14143.81	90.00	267.32	7067.00	188.33	55.95	267.83	1557.06	1177.70	4.10	
14100.00	14243.80	90.00	267.32	7067.00	191.10	56.68	267.83	1555.95	1171.06	4.04	
14200.00	14343.80	90.00	267.32	7067.00	193.87	57.40	267.83	1554.84	1164.41	3.98	
14300.00	14443.79	90.00	267.32	7067.00	196.64	58.13	267.82	1553.73	1157.76	3.92	
14400.00	14543.78	90.00	267.32	7067.00	199.41	58.85	267.82	1552.62	1151.11	3.87	
14500.00	14643.78	90.00	267.32	7067.00	202.19	59.58	267.82	1551.51	1144.45	3.81	
14600.00	14743.77	90.00	267.32	7067.00	204.96	60.31	267.82	1550.40	1137.80	3.76	

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
14700.00	14843.76	90.00	267.32	7067.00	207.73	61.03	267.82	1549.29	1131.14	3.71	
14800.00	14943.76	90.00	267.32	7067.00	210.51	61.76	267.82	1548.18	1124.48	3.65	
14900.00	15043.75	90.00	267.32	7067.00	213.28	62.49	267.81	1547.06	1117.83	3.60	
15000.00	15143.75	90.00	267.32	7067.00	216.06	63.21	267.81	1545.95	1111.17	3.56	
15100.00	15243.74	90.00	267.32	7067.00	218.84	63.94	267.81	1544.84	1104.51	3.51	
15200.00	15343.73	90.00	267.32	7067.00	221.62	64.67	267.81	1543.73	1097.84	3.46	
15300.00	15443.73	90.00	267.32	7067.00	224.39	65.39	267.81	1542.62	1091.18	3.42	
15400.00	15543.72	90.00	267.32	7067.00	227.17	66.12	267.81	1541.51	1084.52	3.37	
15500.00	15643.72	90.00	267.32	7067.00	229.95	66.85	267.80	1540.40	1077.85	3.33	
15501.26	15644.97	90.00	267.32	7067.00	229.99	66.86	267.80	1540.38	1077.77	3.33	
Secondary Well: Goetzel 34N-30C-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	0.00	0.00	0.00	180.05	159.93	159.20	218.10	
100.00	100.00	0.00	0.00	100.00	0.11	0.11	180.05	159.93	158.98	167.66	
200.00	200.00	0.00	0.00	200.00	0.34	0.34	180.05	159.93	158.53	113.95	
300.00	300.00	0.00	0.00	300.00	0.56	0.56	180.05	159.93	158.08	86.31	
400.00	400.00	0.00	0.00	400.00	0.79	0.79	180.05	159.93	157.63	69.46	
500.00	497.92	0.96	141.02	497.91	1.00	0.99	179.96	160.26	157.52	58.58	
600.00	593.64	2.87	141.02	593.58	1.18	1.17	179.25	162.87	159.73	51.88	
700.00	689.05	4.78	141.02	688.77	1.37	1.36	177.91	168.17	164.61	47.27	
800.00	783.93	6.68	141.02	783.18	1.60	1.56	176.05	176.27	172.28	44.14	
900.00	878.08	8.56	141.02	876.49	1.86	1.76	173.84	187.31	182.87	42.26	
1000.00	971.31	10.43	141.02	968.43	2.16	1.97	171.44	201.41	196.52	41.17	
1100.00	1063.43	12.27	141.02	1058.75	2.50	2.18	168.99	218.67	213.33	40.89	
1200.00	1154.28	14.09	141.02	1147.21	2.89	2.40	166.60	239.14	233.34	41.25	
1300.00	1243.72	15.87	141.02	1233.60	3.32	2.62	164.35	262.82	256.57	42.07	
1400.00	1331.59	17.63	141.02	1317.74	3.80	2.84	162.28	289.65	282.95	43.20	
1500.00	1417.78	19.36	141.02	1399.48	4.32	3.07	160.41	319.59	312.43	44.66	
1600.00	1505.72	20.44	141.02	1482.06	4.90	3.32	158.68	352.36	344.75	46.29	
1700.00	1599.42	20.44	141.02	1569.86	5.54	3.60	157.11	385.96	377.87	47.67	
1800.00	1693.51	20.44	141.02	1658.02	6.20	3.89	62.64	419.03	410.43	48.73	
1900.00	1788.29	20.44	141.02	1746.83	6.87	4.18	61.53	450.67	441.57	49.56	
2000.00	1883.66	20.44	141.02	1836.19	7.54	4.48	60.90	480.73	471.13	50.06	
2100.00	1979.49	20.44	141.02	1925.99	8.23	4.78	60.68	509.18	499.05	50.23	
2200.00	2075.67	20.44	141.02	2016.11	8.92	5.08	60.80	536.02	525.32	50.10	
2300.00	2172.08	20.44	141.02	2106.45	9.62	5.39	61.20	561.30	550.00	49.63	
2400.00	2268.61	20.44	141.02	2196.89	10.32	5.70	61.87	585.12	573.10	48.70	
2500.00	2365.13	20.44	141.02	2287.33	11.02	6.01	62.77	607.58	594.77	47.45	
2600.00	2461.56	20.44	141.02	2377.69	11.72	6.33	64.04	629.06	615.40	46.04	
2700.00	2557.97	20.44	141.02	2468.03	12.42	6.64	65.42	650.77	636.21	44.70	
2800.00	2654.38	20.44	141.02	2558.37	13.13	6.95	66.72	672.82	657.32	43.42	
2900.00	2750.80	20.44	141.02	2648.71	13.83	7.27	67.93	695.18	678.70	42.18	
3000.00	2847.21	20.44	141.02	2739.05	14.54	7.58	69.08	717.84	700.35	41.06	
3100.00	2943.62	20.44	141.02	2829.39	15.25	7.90	70.15	740.75	722.23	40.01	
3200.00	3040.03	20.44	141.02	2919.73	15.95	8.22	71.16	763.89	744.32	39.03	
3300.00	3136.45	20.44	141.02	3010.07	16.66	8.53	72.11	787.25	766.62	38.16	
3400.00	3232.86	20.44	141.02	3100.41	17.37	8.85	73.00	810.81	789.10	37.35	
3500.00	3329.27	20.44	141.02	3190.75	18.07	9.17	73.85	834.54	811.71	36.56	
3600.00	3425.68	20.44	141.02	3281.09	18.78	9.49	74.65	858.44	834.49	35.84	
3700.00	3522.10	20.44	141.02	3371.43	19.49	9.80	75.40	882.49	857.41	35.18	
3800.00	3618.51	20.44	141.02	3461.77	20.20	10.12	76.12	906.68	880.47	34.58	
3900.00	3714.92	20.44	141.02	3552.11	20.91	10.44	76.80	931.00	903.65	34.03	
4000.00	3811.33	20.44	141.02	3642.45	21.62	10.76	77.45	955.44	926.94	33.53	
4100.00	3907.75	20.44	141.02	3732.79	22.33	11.08	78.06	979.98	950.35	33.07	
4200.00	4004.16	20.44	141.02	3823.13	23.04	11.40	78.64	1004.63	973.85	32.64	
4300.00	4100.57	20.44	141.02	3913.47	23.75	11.72	79.20	1029.38	997.45	32.24	

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
4400.00	4196.98	20.44	141.02	4003.81	24.46	12.04	79.73	1054.21	1021.13	31.87	
4500.00	4293.40	20.44	141.02	4094.15	25.17	12.36	80.24	1079.12	1044.89	31.53	
4600.00	4389.81	20.44	141.02	4184.48	25.88	12.68	80.72	1104.11	1068.73	31.21	
4700.00	4486.22	20.44	141.02	4274.82	26.59	13.00	81.18	1129.16	1092.63	30.91	
4800.00	4582.63	20.44	141.02	4365.16	27.30	13.32	81.62	1154.29	1116.58	30.61	
4900.00	4679.05	20.44	141.02	4455.50	28.01	13.64	82.05	1179.48	1140.56	30.31	
5000.00	4775.46	20.44	141.02	4545.84	28.72	13.96	82.45	1204.72	1164.61	30.03	
5100.00	4871.87	20.44	141.02	4636.18	29.43	14.28	82.84	1230.02	1188.71	29.77	
5200.00	4968.28	20.44	141.02	4726.52	30.14	14.60	83.22	1255.38	1212.86	29.53	
5300.00	5064.70	20.44	141.02	4816.86	30.85	14.93	83.58	1280.78	1237.06	29.30	
5400.00	5161.11	20.44	141.02	4907.20	31.56	15.25	83.92	1306.22	1261.31	29.08	
5500.00	5257.52	20.44	141.02	4997.54	32.27	15.57	84.25	1331.71	1285.59	28.88	
5600.00	5353.93	20.44	141.02	5087.88	32.98	15.89	84.57	1357.24	1309.92	28.68	
5700.00	5450.35	20.44	141.02	5178.22	33.69	16.21	84.88	1382.81	1334.29	28.50	
5800.00	5546.76	20.44	141.02	5268.56	34.40	16.53	85.18	1408.41	1358.69	28.33	
5900.00	5643.17	20.44	141.02	5358.90	35.11	16.85	85.46	1434.05	1383.12	28.16	
6000.00	5739.58	20.44	141.02	5449.24	35.82	17.17	85.74	1459.72	1407.59	28.00	
6100.00	5836.00	20.44	141.02	5539.58	36.54	17.50	86.01	1485.42	1432.09	27.85	
6200.00	5932.41	20.44	141.02	5629.92	37.25	17.82	86.26	1511.15	1456.62	27.71	
6300.00	6028.90	20.44	141.02	5720.33	37.96	18.14	85.83	1536.84	1481.18	27.61	
6400.00	6125.44	20.44	141.02	5810.80	38.67	18.46	76.77	1561.78	1505.39	27.70	
6500.00	6220.41	20.44	141.02	5899.78	39.37	18.78	312.45	1585.56	1528.83	27.95	
6600.00	6311.95	20.44	141.02	5985.56	40.05	19.08	287.38	1608.22	1551.52	28.36	
6700.00	6398.29	20.44	141.02	6066.46	40.68	19.37	283.53	1630.11	1573.80	28.95	
6800.00	6477.25	19.89	143.51	6140.46	41.25	19.64	282.00	1651.76	1596.15	29.70	
6900.00	6553.18	17.42	160.96	6212.46	41.42	19.83	281.22	1673.75	1618.95	30.54	
7000.00	6634.70	16.87	183.13	6290.44	41.19	19.95	280.66	1696.03	1642.07	31.43	
7100.00	6724.12	18.94	205.57	6375.63	40.44	19.96	280.09	1718.35	1665.21	32.34	
7200.00	6825.00	23.70	223.66	6469.67	39.05	19.80	279.38	1740.36	1687.89	33.17	
7300.00	6942.86	30.97	236.87	6574.40	36.83	19.35	278.38	1761.55	1709.28	33.70	
7400.00	7086.40	40.93	246.69	6690.54	33.68	18.25	276.97	1781.10	1728.57	33.90	
7500.00	7268.30	54.31	254.52	6812.97	30.13	15.65	275.06	1797.62	1744.04	33.55	
7600.00	7502.36	72.01	261.41	6918.34	28.43	10.97	272.85	1808.84	1752.73	32.24	
7700.00	7754.47	90.00	267.03	6955.00	30.02	12.06	271.68	1811.76	1751.38	30.01	
7800.00	7854.47	90.00	267.03	6955.00	31.05	12.58	271.68	1811.14	1748.48	28.90	
7900.00	7954.47	90.00	267.03	6955.00	32.26	13.15	271.68	1810.53	1745.21	27.72	
8000.00	8054.47	90.00	267.03	6955.00	33.66	13.75	271.68	1809.91	1741.56	26.48	
8100.00	8154.47	90.00	267.03	6955.00	35.21	14.37	271.68	1809.29	1737.56	25.22	
8200.00	8254.46	90.00	267.03	6955.00	36.91	15.01	271.68	1808.67	1733.32	24.00	
8300.00	8354.46	90.00	267.03	6955.00	38.73	15.67	271.68	1808.06	1728.84	22.83	
8400.00	8454.46	90.00	267.03	6955.00	40.66	16.35	271.68	1807.44	1724.19	21.71	
8500.00	8554.46	90.00	267.03	6955.00	42.69	17.03	271.68	1806.82	1719.33	20.65	
8600.00	8654.46	90.00	267.03	6955.00	44.80	17.71	271.68	1806.20	1714.35	19.66	
8700.00	8754.45	90.00	267.03	6955.00	46.98	18.40	271.68	1805.59	1709.23	18.74	
8800.00	8854.45	90.00	267.03	6955.00	49.23	19.09	271.68	1804.97	1704.06	17.89	
8900.00	8954.45	90.00	267.03	6955.00	51.53	19.79	271.68	1804.35	1698.78	17.09	
9000.00	9054.45	90.00	267.03	6955.00	53.87	20.49	271.68	1803.74	1693.41	16.35	
9100.00	9154.45	90.00	267.03	6955.00	56.26	21.19	271.68	1803.12	1687.95	15.66	
9200.00	9254.44	90.00	267.03	6955.00	58.69	21.89	271.68	1802.50	1682.41	15.01	
9300.00	9354.44	90.00	267.03	6955.00	61.14	22.59	271.69	1801.88	1676.82	14.41	
9400.00	9454.44	90.00	267.03	6955.00	63.63	23.29	271.69	1801.27	1671.16	13.84	
9500.00	9554.44	90.00	267.03	6955.00	66.14	24.00	271.69	1800.65	1665.47	13.32	
9600.00	9654.44	90.00	267.03	6955.00	68.67	24.71	271.69	1800.03	1659.73	12.83	
9700.00	9754.44	90.00	267.03	6955.00	71.23	25.41	271.69	1799.41	1653.95	12.37	
9800.00	9854.43	90.00	267.03	6955.00	73.80	26.12	271.69	1798.80	1648.14	11.94	
9900.00	9954.43	90.00	267.03	6955.00	76.39	26.83	271.69	1798.18	1642.30	11.54	
10000.00	10054.43	90.00	267.03	6955.00	78.99	27.54	271.69	1797.56	1636.44	11.16	
10100.00	10154.43	90.00	267.03	6955.00	81.61	28.25	271.69	1796.95	1630.56	10.80	

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
10200.00	10254.43	90.00	267.03	6955.00	84.23	28.96	271.69	1796.33	1624.65	10.46	
10300.00	10354.42	90.00	267.03	6955.00	86.87	29.67	271.69	1795.71	1618.73	10.15	
10400.00	10454.42	90.00	267.03	6955.00	89.52	30.38	271.69	1795.09	1612.78	9.85	
10500.00	10554.42	90.00	267.03	6955.00	92.18	31.10	271.69	1794.48	1606.83	9.56	
10600.00	10654.42	90.00	267.03	6955.00	94.85	31.81	271.69	1793.86	1600.85	9.29	
10700.00	10754.42	90.00	267.03	6955.00	97.52	32.52	271.69	1793.24	1594.87	9.04	
10800.00	10854.41	90.00	267.03	6955.00	100.20	33.24	271.69	1792.62	1588.87	8.80	
10900.00	10954.41	90.00	267.03	6955.00	102.89	33.95	271.69	1792.01	1582.86	8.57	
11000.00	11054.41	90.00	267.03	6955.00	105.58	34.67	271.70	1791.39	1576.84	8.35	
11100.00	11154.41	90.00	267.03	6955.00	108.28	35.39	271.70	1790.77	1570.81	8.14	
11200.00	11254.41	90.00	267.03	6955.00	110.98	36.10	271.70	1790.16	1564.78	7.94	
11300.00	11354.40	90.00	267.03	6955.00	113.69	36.82	271.70	1789.54	1558.73	7.75	
11400.00	11454.40	90.00	267.03	6955.00	116.40	37.54	271.70	1788.92	1552.68	7.57	
11500.00	11554.40	90.00	267.03	6955.00	119.12	38.26	271.70	1788.30	1546.62	7.40	
11600.00	11654.40	90.00	267.03	6955.00	121.84	38.98	271.70	1787.69	1540.55	7.23	
11700.00	11754.40	90.00	267.03	6955.00	124.56	39.70	271.70	1787.07	1534.47	7.07	
11800.00	11854.40	90.00	267.03	6955.00	127.29	40.42	271.70	1786.45	1528.40	6.92	
11900.00	11954.39	90.00	267.03	6955.00	130.02	41.14	271.70	1785.83	1522.31	6.78	
12000.00	12054.39	90.00	267.03	6955.00	132.75	41.86	271.70	1785.22	1516.22	6.64	
12100.00	12154.39	90.00	267.03	6955.00	135.49	42.58	271.70	1784.60	1510.13	6.50	
12200.00	12254.39	90.00	267.03	6955.00	138.23	43.30	271.70	1783.98	1504.03	6.37	
12300.00	12354.39	90.00	267.03	6955.00	140.97	44.02	271.70	1783.37	1497.92	6.25	
12400.00	12454.38	90.00	267.03	6955.00	143.71	44.74	271.70	1782.75	1491.81	6.13	
12500.00	12554.38	90.00	267.03	6955.00	146.46	45.47	271.70	1782.13	1485.70	6.01	
12600.00	12654.38	90.00	267.03	6955.00	149.20	46.19	271.70	1781.51	1479.59	5.90	
12700.00	12754.38	90.00	267.03	6955.00	151.95	46.91	271.71	1780.90	1473.47	5.79	
12800.00	12854.38	90.00	267.03	6955.00	154.70	47.63	271.71	1780.28	1467.35	5.69	
12900.00	12954.37	90.00	267.03	6955.00	157.46	48.36	271.71	1779.66	1461.22	5.59	
13000.00	13054.37	90.00	267.03	6955.00	160.21	49.08	271.71	1779.04	1455.09	5.49	
13100.00	13154.37	90.00	267.03	6955.00	162.97	49.81	271.71	1778.43	1448.96	5.40	
13200.00	13254.37	90.00	267.03	6955.00	165.72	50.53	271.71	1777.81	1442.83	5.31	
13300.00	13354.37	90.00	267.03	6955.00	168.48	51.25	271.71	1777.19	1436.69	5.22	
13400.00	13454.36	90.00	267.03	6955.00	171.24	51.98	271.71	1776.58	1430.55	5.13	
13500.00	13554.36	90.00	267.03	6955.00	174.00	52.70	271.71	1775.96	1424.41	5.05	
13600.00	13654.36	90.00	267.03	6955.00	176.77	53.43	271.71	1775.34	1418.27	4.97	
13700.00	13754.36	90.00	267.03	6955.00	179.53	54.15	271.71	1774.72	1412.12	4.89	
13800.00	13854.36	90.00	267.03	6955.00	182.30	54.88	271.71	1774.11	1405.98	4.82	
13900.00	13954.36	90.00	267.03	6955.00	185.06	55.61	271.71	1773.49	1399.83	4.75	
14000.00	14054.35	90.00	267.03	6955.00	187.83	56.33	271.71	1772.87	1393.68	4.68	
14100.00	14154.35	90.00	267.03	6955.00	190.60	57.06	271.71	1772.25	1387.52	4.61	
14200.00	14254.35	90.00	267.03	6955.00	193.37	57.78	271.71	1771.64	1381.37	4.54	
14300.00	14354.35	90.00	267.03	6955.00	196.14	58.51	271.71	1771.02	1375.21	4.47	
14400.00	14454.35	90.00	267.03	6955.00	198.91	59.24	271.72	1770.40	1369.06	4.41	
14500.00	14554.34	90.00	267.03	6955.00	201.68	59.96	271.72	1769.79	1362.90	4.35	
14600.00	14654.34	90.00	267.03	6955.00	204.45	60.69	271.72	1769.17	1356.74	4.29	
14700.00	14754.34	90.00	267.03	6955.00	207.22	61.42	271.72	1768.55	1350.58	4.23	
14800.00	14854.34	90.00	267.03	6955.00	210.00	62.14	271.72	1767.93	1344.41	4.17	
14900.00	14954.34	90.00	267.03	6955.00	212.77	62.87	271.72	1767.32	1338.25	4.12	
15000.00	15054.33	90.00	267.03	6955.00	215.55	63.60	271.72	1766.70	1332.08	4.06	
15100.00	15154.33	90.00	267.03	6955.00	218.32	64.33	271.72	1766.08	1325.92	4.01	
15200.00	15254.33	90.00	267.03	6955.00	221.10	65.05	271.72	1765.46	1319.75	3.96	
15300.00	15354.33	90.00	267.03	6955.00	223.87	65.78	271.72	1764.85	1313.58	3.91	
15400.00	15454.33	90.00	267.03	6955.00	226.65	66.51	271.72	1764.23	1307.41	3.86	
15500.00	15554.32	90.00	267.03	6955.00	229.43	67.24	271.72	1763.61	1301.24	3.81	
15501.26	15555.58	90.00	267.03	6955.00	229.46	67.25	271.72	1763.60	1301.16	3.81	

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	180.08	179.97	179.24	245.42	
100.00	100.00	0.00	0.00	100.00	0.11	0.11	180.08	179.97	179.02	188.66	
200.00	200.00	0.00	0.00	200.00	0.34	0.34	180.08	179.97	178.57	128.23	
300.00	300.00	0.00	0.00	300.00	0.56	0.56	180.08	179.97	178.12	97.12	
400.00	395.13	1.90	144.12	395.11	0.76	0.75	179.79	181.32	179.05	79.93	
500.00	490.04	3.80	144.12	489.90	0.95	0.94	178.94	185.38	182.70	68.93	
600.00	584.54	5.69	144.12	584.08	1.16	1.14	177.60	192.24	189.12	61.60	
700.00	678.43	7.57	144.12	677.33	1.42	1.34	175.89	201.99	198.42	56.68	
800.00	771.50	9.43	144.12	769.38	1.71	1.55	173.94	214.72	210.70	53.42	
900.00	863.58	11.27	144.12	859.96	2.04	1.77	171.86	230.53	226.05	51.44	
1000.00	954.50	13.09	144.12	948.82	2.42	1.99	169.77	249.47	244.53	50.44	
1100.00	1044.09	14.88	144.12	1035.76	2.84	2.21	167.73	271.56	266.15	50.20	
1200.00	1132.22	16.64	144.12	1120.57	3.30	2.44	165.81	296.78	290.91	50.60	
1300.00	1218.76	18.38	144.12	1203.09	3.81	2.67	164.03	325.07	318.75	51.39	
1400.00	1303.60	20.07	144.12	1283.20	4.35	2.91	162.41	356.37	349.58	52.48	
1500.00	1392.22	20.88	144.12	1366.10	4.97	3.17	160.88	390.25	382.99	53.75	
1600.00	1485.65	20.88	144.12	1453.39	5.63	3.46	159.49	424.67	416.91	54.71	
1700.00	1579.08	20.88	144.12	1540.69	6.31	3.76	158.32	459.28	451.00	55.49	
1800.00	1672.88	20.88	144.12	1628.33	6.99	4.05	64.10	493.33	484.56	56.25	
1900.00	1767.35	20.88	144.12	1716.59	7.68	4.36	63.12	525.99	516.72	56.75	
2000.00	1862.36	20.88	144.12	1805.36	8.38	4.66	62.56	557.16	547.38	56.96	
2100.00	1957.80	20.88	144.12	1894.53	9.08	4.97	62.35	586.81	576.49	56.85	
2200.00	2053.56	20.88	144.12	1984.00	9.79	5.29	62.44	614.96	604.05	56.40	
2300.00	2149.52	20.88	144.12	2073.65	10.50	5.60	62.79	641.64	630.12	55.67	
2400.00	2245.55	20.88	144.12	2163.38	11.21	5.92	63.36	666.95	654.72	54.55	
2500.00	2341.56	20.88	144.12	2253.08	11.92	6.23	64.15	691.00	677.98	53.07	
2600.00	2437.44	20.88	144.12	2342.67	12.64	6.55	65.31	714.13	700.25	51.45	
2700.00	2533.31	20.88	144.12	2432.23	13.35	6.87	66.61	737.50	722.72	49.91	
2800.00	2629.17	20.88	144.12	2521.80	14.06	7.19	67.84	761.21	745.51	48.50	
2900.00	2725.04	20.88	144.12	2611.37	14.78	7.51	68.99	785.23	768.57	47.12	
3000.00	2820.90	20.88	144.12	2700.94	15.49	7.83	70.07	809.55	791.87	45.79	
3100.00	2916.77	20.88	144.12	2790.51	16.21	8.15	71.09	834.12	815.40	44.56	
3200.00	3012.63	20.88	144.12	2880.08	16.92	8.47	72.05	858.94	839.16	43.44	
3300.00	3108.50	20.88	144.12	2969.65	17.64	8.79	72.96	883.97	863.14	42.43	
3400.00	3204.36	20.88	144.12	3059.21	18.36	9.11	73.82	909.21	887.30	41.51	
3500.00	3300.23	20.88	144.12	3148.78	19.07	9.43	74.64	934.63	911.65	40.67	
3600.00	3396.10	20.88	144.12	3238.35	19.79	9.75	75.41	960.22	936.13	39.86	
3700.00	3491.96	20.88	144.12	3327.92	20.51	10.07	76.14	985.97	960.76	39.11	
3800.00	3587.83	20.88	144.12	3417.49	21.22	10.39	76.84	1011.86	985.52	38.41	
3900.00	3683.69	20.88	144.12	3507.06	21.94	10.72	77.50	1037.89	1010.41	37.77	
4000.00	3779.56	20.88	144.12	3596.63	22.66	11.04	78.13	1064.04	1035.43	37.19	
4100.00	3875.42	20.88	144.12	3686.19	23.38	11.36	78.73	1090.31	1060.56	36.65	
4200.00	3971.29	20.88	144.12	3775.76	24.09	11.68	79.30	1116.69	1085.79	36.15	
4300.00	4067.15	20.88	144.12	3865.33	24.81	12.01	79.85	1143.16	1111.13	35.68	
4400.00	4163.02	20.88	144.12	3954.90	25.53	12.33	80.37	1169.73	1136.55	35.26	
4500.00	4258.88	20.88	144.12	4044.47	26.25	12.65	80.87	1196.39	1162.06	34.86	
4600.00	4354.75	20.88	144.12	4134.04	26.96	12.97	81.34	1223.12	1187.65	34.48	
4700.00	4450.61	20.88	144.12	4223.61	27.68	13.30	81.80	1249.93	1213.31	34.13	
4800.00	4546.48	20.88	144.12	4313.17	28.40	13.62	82.24	1276.82	1239.03	33.79	
4900.00	4642.34	20.88	144.12	4402.74	29.12	13.94	82.66	1303.77	1264.82	33.47	
5000.00	4738.21	20.88	144.12	4492.31	29.84	14.27	83.06	1330.78	1290.67	33.18	
5100.00	4834.08	20.88	144.12	4581.88	30.55	14.59	83.44	1357.85	1316.56	32.88	
5200.00	4929.94	20.88	144.12	4671.45	31.27	14.91	83.82	1384.98	1342.50	32.60	
5300.00	5025.81	20.88	144.12	4761.02	31.99	15.24	84.17	1412.16	1368.48	32.33	
5400.00	5121.67	20.88	144.12	4850.59	32.71	15.56	84.52	1439.39	1394.52	32.08	
5500.00	5217.54	20.88	144.12	4940.15	33.43	15.88	84.85	1466.67	1420.60	31.84	
5600.00	5313.40	20.88	144.12	5029.72	34.15	16.21	85.17	1493.99	1446.72	31.61	
5700.00	5409.27	20.88	144.12	5119.29	34.86	16.53	85.48	1521.35	1472.89	31.40	

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
5800.00	5505.13	20.88	144.12	5208.86	35.58	16.85	85.77	1548.75	1499.10	31.19	
5900.00	5601.00	20.88	144.12	5298.43	36.30	17.18	86.06	1576.19	1525.34	31.00	
6000.00	5696.86	20.88	144.12	5388.00	37.02	17.50	86.34	1603.66	1551.62	30.81	
6100.00	5792.73	20.88	144.12	5477.56	37.74	17.82	86.61	1631.17	1577.93	30.64	
6200.00	5888.59	20.88	144.12	5567.13	38.46	18.15	86.86	1658.71	1604.28	30.47	
6300.00	5984.55	20.88	144.12	5656.78	39.18	18.47	86.50	1686.20	1630.64	30.35	
6400.00	6080.69	20.88	144.12	5746.61	39.90	18.80	77.63	1712.81	1656.52	30.43	
6500.00	6175.41	20.88	144.12	5835.11	40.61	19.12	313.51	1738.04	1681.40	30.68	
6600.00	6266.87	20.88	144.12	5920.57	41.29	19.42	288.65	1761.85	1705.21	31.11	
6700.00	6353.30	20.88	144.12	6001.31	41.94	19.72	284.99	1784.47	1728.20	31.71	
6800.00	6433.00	20.88	144.12	6075.78	42.54	19.99	283.61	1806.36	1750.69	32.44	
6900.00	6504.43	20.88	144.12	6142.52	43.07	20.23	282.93	1828.10	1773.14	33.26	
7000.00	6566.19	20.88	144.12	6200.22	43.54	20.44	282.68	1850.31	1796.30	34.26	
7100.00	6617.57	20.79	144.56	6248.23	43.92	20.61	282.84	1873.55	1820.68	35.43	
7200.00	6676.41	18.81	157.21	6303.62	44.16	20.79	282.95	1898.04	1846.06	36.51	
7300.00	6740.17	17.81	173.19	6364.19	44.11	20.93	283.06	1923.63	1872.33	37.50	
7400.00	6813.77	18.37	192.14	6434.20	43.67	21.01	283.03	1950.19	1899.33	38.35	
7500.00	6911.34	21.63	213.05	6526.00	42.50	21.00	282.42	1977.47	1926.48	38.78	
7600.00	7095.66	32.18	236.36	6690.58	38.82	20.50	279.45	2004.71	1952.92	38.71	
7700.00	7883.77	90.00	266.98	7060.00	30.41	12.25	268.53	2022.69	1962.33	33.51	
7800.00	7983.76	90.00	266.98	7060.00	31.39	12.77	268.53	2022.17	1959.64	32.34	
7900.00	8083.76	90.00	266.98	7060.00	32.55	13.34	268.53	2021.66	1956.44	31.00	
8000.00	8183.76	90.00	266.98	7060.00	33.90	13.94	268.53	2021.14	1952.94	29.63	
8100.00	8283.76	90.00	266.98	7060.00	35.40	14.58	268.53	2020.63	1949.14	28.27	
8200.00	8383.76	90.00	266.98	7060.00	37.06	15.24	268.52	2020.12	1945.08	26.92	
8300.00	8483.76	90.00	266.98	7060.00	38.84	15.91	268.52	2019.60	1940.78	25.62	
8400.00	8583.76	90.00	266.98	7060.00	40.73	16.60	268.52	2019.09	1936.31	24.39	
8500.00	8683.75	90.00	266.98	7060.00	42.72	17.29	268.52	2018.57	1931.55	23.20	
8600.00	8783.75	90.00	266.98	7060.00	44.80	17.99	268.52	2018.06	1926.71	22.09	
8700.00	8883.75	90.00	266.98	7060.00	46.95	18.69	268.52	2017.54	1921.76	21.06	
8800.00	8983.75	90.00	266.98	7060.00	49.16	19.40	268.52	2017.03	1916.66	20.10	
8900.00	9083.75	90.00	266.98	7060.00	51.44	20.11	268.52	2016.51	1911.42	19.19	
9000.00	9183.75	90.00	266.98	7060.00	53.76	20.82	268.52	2016.00	1906.12	18.35	
9100.00	9283.75	90.00	266.98	7060.00	56.13	21.53	268.52	2015.48	1900.76	17.57	
9200.00	9383.75	90.00	266.98	7060.00	58.53	22.23	268.52	2014.97	1895.34	16.84	
9300.00	9483.74	90.00	266.98	7060.00	60.97	22.94	268.52	2014.45	1889.87	16.17	
9400.00	9583.74	90.00	266.98	7060.00	63.44	23.66	268.52	2013.94	1884.35	15.54	
9500.00	9683.74	90.00	266.98	7060.00	65.94	24.37	268.52	2013.42	1878.79	14.96	
9600.00	9783.74	90.00	266.98	7060.00	68.46	25.08	268.52	2012.91	1873.20	14.41	
9700.00	9883.74	90.00	266.98	7060.00	71.00	25.79	268.52	2012.39	1867.57	13.90	
9800.00	9983.74	90.00	266.98	7060.00	73.56	26.50	268.52	2011.88	1861.91	13.42	
9900.00	10083.74	90.00	266.98	7060.00	76.14	27.21	268.52	2011.37	1856.18	12.96	
10000.00	10183.73	90.00	266.98	7060.00	78.73	27.93	268.52	2010.85	1850.41	12.53	
10100.00	10283.73	90.00	266.98	7060.00	81.34	28.64	268.52	2010.34	1844.63	12.13	
10200.00	10383.73	90.00	266.98	7060.00	83.96	29.36	268.52	2009.82	1838.82	11.75	
10300.00	10483.73	90.00	266.98	7060.00	86.59	30.07	268.52	2009.31	1832.99	11.40	
10400.00	10583.73	90.00	266.98	7060.00	89.23	30.78	268.52	2008.79	1827.15	11.06	
10500.00	10683.73	90.00	266.98	7060.00	91.88	31.50	268.52	2008.28	1821.29	10.74	
10600.00	10783.73	90.00	266.98	7060.00	94.54	32.22	268.52	2007.76	1815.42	10.44	
10700.00	10883.73	90.00	266.98	7060.00	97.21	32.93	268.52	2007.25	1809.53	10.15	
10800.00	10983.72	90.00	266.98	7060.00	99.88	33.65	268.52	2006.73	1803.63	9.88	
10900.00	11083.72	90.00	266.98	7060.00	102.56	34.37	268.51	2006.22	1797.72	9.62	
11000.00	11183.72	90.00	266.98	7060.00	105.25	35.08	268.51	2005.70	1791.80	9.38	
11100.00	11283.72	90.00	266.98	7060.00	107.94	35.80	268.51	2005.19	1785.88	9.14	
11200.00	11383.72	90.00	266.98	7060.00	110.64	36.52	268.51	2004.67	1779.94	8.92	
11300.00	11483.72	90.00	266.98	7060.00	113.35	37.24	268.51	2004.16	1773.99	8.71	
11400.00	11583.72	90.00	266.98	7060.00	116.05	37.96	268.51	2003.65	1768.04	8.50	
11500.00	11683.71	90.00	266.98	7060.00	118.77	38.68	268.51	2003.13	1762.08	8.31	

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
11600.00	11783.71	90.00	266.98	7060.00	121.48	39.40	268.51	2002.62	1756.11	8.12	
11700.00	11883.71	90.00	266.98	7060.00	124.20	40.12	268.51	2002.10	1750.14	7.95	
11800.00	11983.71	90.00	266.98	7060.00	126.93	40.84	268.51	2001.59	1744.16	7.78	
11900.00	12083.71	90.00	266.98	7060.00	129.65	41.56	268.51	2001.07	1738.18	7.61	
12000.00	12183.71	90.00	266.98	7060.00	132.38	42.28	268.51	2000.56	1732.19	7.45	
12100.00	12283.71	90.00	266.98	7060.00	135.12	43.00	268.51	2000.04	1726.20	7.30	
12200.00	12383.71	90.00	266.98	7060.00	137.85	43.72	268.51	1999.53	1720.20	7.16	
12300.00	12483.70	90.00	266.98	7060.00	140.59	44.45	268.51	1999.01	1714.20	7.02	
12400.00	12583.70	90.00	266.98	7060.00	143.33	45.17	268.51	1998.50	1708.19	6.88	
12500.00	12683.70	90.00	266.98	7060.00	146.07	45.89	268.51	1997.98	1702.18	6.75	
12600.00	12783.70	90.00	266.98	7060.00	148.82	46.61	268.51	1997.47	1696.16	6.63	
12700.00	12883.70	90.00	266.98	7060.00	151.57	47.34	268.51	1996.95	1690.15	6.51	
12800.00	12983.70	90.00	266.98	7060.00	154.31	48.06	268.51	1996.44	1684.13	6.39	
12900.00	13083.70	90.00	266.98	7060.00	157.06	48.78	268.51	1995.93	1678.10	6.28	
13000.00	13183.69	90.00	266.98	7060.00	159.82	49.51	268.51	1995.41	1672.08	6.17	
13100.00	13283.69	90.00	266.98	7060.00	162.57	50.23	268.51	1994.90	1666.05	6.07	
13200.00	13383.69	90.00	266.98	7060.00	165.33	50.96	268.51	1994.38	1660.01	5.96	
13300.00	13483.69	90.00	266.98	7060.00	168.08	51.68	268.51	1993.87	1653.98	5.87	
13400.00	13583.69	90.00	266.98	7060.00	170.84	52.41	268.51	1993.35	1647.94	5.77	
13500.00	13683.69	90.00	266.98	7060.00	173.60	53.13	268.50	1992.84	1641.90	5.68	
13600.00	13783.69	90.00	266.98	7060.00	176.36	53.86	268.50	1992.32	1635.86	5.59	
13700.00	13883.69	90.00	266.98	7060.00	179.12	54.58	268.50	1991.81	1629.82	5.50	
13800.00	13983.68	90.00	266.98	7060.00	181.89	55.31	268.50	1991.29	1623.77	5.42	
13900.00	14083.68	90.00	266.98	7060.00	184.65	56.03	268.50	1990.78	1617.73	5.34	
14000.00	14183.68	90.00	266.98	7060.00	187.42	56.76	268.50	1990.26	1611.68	5.26	
14100.00	14283.68	90.00	266.98	7060.00	190.18	57.49	268.50	1989.75	1605.62	5.18	
14200.00	14383.68	90.00	266.98	7060.00	192.95	58.21	268.50	1989.23	1599.57	5.11	
14300.00	14483.68	90.00	266.98	7060.00	195.72	58.94	268.50	1988.72	1593.52	5.03	
14400.00	14583.68	90.00	266.98	7060.00	198.49	59.67	268.50	1988.21	1587.46	4.96	
14500.00	14683.68	90.00	266.98	7060.00	201.26	60.39	268.50	1987.69	1581.40	4.89	
14600.00	14783.67	90.00	266.98	7060.00	204.03	61.12	268.50	1987.18	1575.35	4.83	
14700.00	14883.67	90.00	266.98	7060.00	206.80	61.85	268.50	1986.66	1569.29	4.76	
14800.00	14983.67	90.00	266.98	7060.00	209.57	62.57	268.50	1986.15	1563.22	4.70	
14900.00	15083.67	90.00	266.98	7060.00	212.35	63.30	268.50	1985.63	1557.16	4.63	
15000.00	15183.67	90.00	266.98	7060.00	215.12	64.03	268.50	1985.12	1551.10	4.57	
15100.00	15283.67	90.00	266.98	7060.00	217.89	64.76	268.50	1984.60	1545.03	4.51	
15200.00	15383.67	90.00	266.98	7060.00	220.67	65.48	268.50	1984.09	1538.97	4.46	
15300.00	15483.66	90.00	266.98	7060.00	223.44	66.21	268.50	1983.57	1532.90	4.40	
15400.00	15583.66	90.00	266.98	7060.00	226.22	66.94	268.50	1983.06	1526.83	4.35	
15500.00	15683.66	90.00	266.98	7060.00	229.00	67.67	268.50	1982.54	1520.76	4.29	
15501.26	15684.92	90.00	266.98	7060.00	229.03	67.68	268.50	1982.54	1520.69	4.29	