

Whiting Oil and Gas Corporation

Weld County, CO
Sec. 27-T10N-R58W (#27 J Pad)
Razor #27J-3409A

Plan D_ST-1
Rev_D0

Sperry Drilling Services Ellipse Separation Anticollision Report

05 October, 2014

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)
Reference Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-3409A - Plan D_ST-1 - Rev_D0

Well Coordinates: 1,541,693.17 N, 3,457,037.80 E (40° 48' 31.14" N, 103° 50' 56.20" W)
Datum Height: KB 22 ft @ 4789.00usft (Frontier 26)

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.
Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimite

Geodetic Scale Factor Applied

Version: 5000.1 Build: 70

HALLIBURTON

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-2210B - Plan C - Actual Field Surveys_Sperry

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft . Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	+E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	+E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
100.00	100.00	0.04	-0.03	3.29	96.89	96.89	-75.12	0.03	3.29	75.16	67.62	-142.89	9.960
177.00	177.00	0.14	-0.10	3.29	173.79	173.79	-75.28	0.09	3.29	75.42	67.87	-142.98	9.986
200.00	200.00	0.19	-0.13	3.30	196.81	196.81	-75.35	0.10	3.30	75.54	67.98	-165.33	9.994
268.00	268.00	0.65	-0.17	3.31	264.87	264.87	-75.49	0.07	3.31	76.14	68.56	-178.08	10.040
300.00	300.00	0.97	-0.19	3.32	296.84	296.84	-75.55	0.01	3.32	76.52	68.92	-175.82	10.067
359.00	358.99	1.58	-0.26	3.34	355.78	355.78	-75.69	-0.22	3.34	77.27	69.63	-171.99	10.116
400.00	399.99	2.02	-0.35	3.36	396.82	396.81	-75.79	-0.41	3.35	77.81	70.14	-164.61	10.145
451.00	450.99	2.56	-0.54	3.38	447.86	447.86	-75.89	-0.57	3.37	78.45	70.74	-156.10	10.168
500.00	499.98	3.08	-0.76	3.41	496.65	496.65	-76.03	-0.68	3.40	79.12	71.35	-158.21	10.190
544.00	543.98	3.57	-0.95	3.43	540.44	540.43	-76.27	-0.79	3.42	79.85	72.04	-160.01	10.220
600.00	599.98	4.08	-1.19	3.46	596.66	596.65	-76.59	-0.93	3.45	80.68	72.80	-147.32	10.238
635.00	634.98	4.28	-1.35	3.49	631.82	631.81	-76.70	-1.03	3.48	80.98	73.05	-132.02	10.218
700.00	699.98	4.48	-1.60	3.53	696.70	696.69	-76.87	-1.13	3.52	81.35	73.34	-122.92	10.151
727.00	726.98	4.52	-1.68	3.55	723.64	723.63	-76.97	-1.13	3.54	81.50	73.44	-113.81	10.120
800.00	799.98	4.49	-1.93	3.61	796.58	796.57	-77.31	-1.07	3.60	81.80	73.63	-66.68	10.010
819.00	818.98	4.44	-2.02	3.62	815.56	815.55	-77.41	-1.05	3.62	81.85	73.65	-61.77	9.977
900.00	899.98	4.28	-2.30	3.70	897.04	897.03	-77.60	-1.68	3.69	81.89	73.54	-62.06	9.804
911.00	910.97	4.27	-2.32	3.71	908.11	908.10	-77.59	-1.88	3.70	81.87	73.49	-62.18	9.777
922.12	922.10	4.28	-2.34	3.72	919.23	919.22	-77.58	-2.12	3.72	81.85	73.46	-121.59	9.750
993.00	992.97	4.89	-2.69	3.79	989.88	989.81	-77.55	-4.74	3.79	82.46	73.93	-153.32	9.659
1,000.00	999.97	5.00	-2.74	3.80	996.85	996.77	-77.56	-5.10	3.80	82.59	74.04	-155.38	9.658
1,087.00	1,086.93	7.57	-3.42	3.89	1,084.20	1,083.88	-77.26	-11.56	3.89	85.22	76.47	-163.31	9.747
1,100.00	1,099.91	8.13	-3.53	3.91	1,097.19	1,096.81	-77.14	-12.82	3.91	85.78	77.01	-164.34	9.778
1,176.00	1,175.78	12.54	-3.97	4.00	1,172.50	1,171.69	-76.45	-20.77	4.00	90.57	81.62	-166.03	10.121
1,200.00	1,199.72	14.29	-4.09	4.03	1,196.24	1,195.28	-76.24	-23.45	4.03	92.59	83.58	-162.98	10.279
1,268.00	1,267.49	19.86	-4.76	4.12	1,263.48	1,262.04	-75.63	-31.50	4.12	99.19	90.01	-155.65	10.804
1,300.00	1,299.35	22.82	-5.26	4.16	1,295.13	1,293.44	-75.33	-35.47	4.16	102.73	93.47	-152.27	11.089
1,360.00	1,359.01	29.01	-6.57	4.25	1,354.57	1,352.44	-74.87	-42.67	4.24	110.03	100.60	-147.34	11.676
1,400.00	1,398.73	33.60	-7.76	4.31	1,394.06	1,391.65	-74.64	-47.24	4.30	115.29	105.76	-143.79	12.095
1,451.00	1,449.28	40.00	-9.75	4.38	1,444.24	1,441.53	-74.56	-52.79	4.37	122.48	112.80	-140.42	12.663
1,500.00	1,497.77	46.65	-12.21	4.46	1,492.47	1,489.50	-74.75	-57.73	4.44	129.76	119.95	-136.86	13.225
1,542.00	1,539.25	52.69	-14.82	4.52	1,533.76	1,530.64	-75.24	-61.24	4.50	136.21	126.47	-134.81	13.991
1,600.00	1,596.52	60.92	-18.80	4.57	1,591.02	1,587.75	-76.29	-65.30	4.55	144.99	135.15	-133.61	14.725
1,636.00	1,632.11	65.72	-21.34	4.60	1,626.72	1,623.35	-76.91	-67.87	4.58	150.14	140.34	-132.61	15.322
1,700.00	1,695.37	74.10	-26.29	4.62	1,689.53	1,685.98	-78.01	-72.48	4.60	159.10	149.27	-130.21	16.198
1,728.00	1,723.02	77.79	-28.69	4.62	1,716.93	1,713.30	-78.58	-74.46	4.60	163.08	153.25	-129.32	16.590
1,800.00	1,793.94	87.89	-35.93	4.65	1,788.33	1,784.52	-80.20	-79.19	4.61	173.69	163.83	-127.44	17.624
1,819.00	1,812.59	90.74	-38.13	4.65	1,807.16	1,803.32	-80.64	-80.26	4.62	176.59	166.72	-127.24	17.907
1,900.00	1,891.68	105.13	-48.01	4.69	1,884.95	1,880.98	-82.70	-84.27	4.64	191.45	181.59	-136.35	19.399
1,911.00	1,902.35	107.40	-49.38	4.70	1,895.37	1,891.38	-83.03	-84.80	4.64	193.86	184.00	-137.40	19.645
2,000.00	1,988.11	127.83	-61.59	4.77	1,979.01	1,974.86	-86.15	-88.87	4.67	215.95	206.05	-140.08	21.810
2,002.00	1,990.02	128.33	-61.89	4.77	1,980.87	1,976.72	-86.22	-88.96	4.67	216.50	206.60	-140.14	21.864
2,094.00	2,078.12	150.97	-75.65	4.86	2,073.11	2,068.78	-89.51	-93.57	4.72	241.24	231.24	-142.62	24.129
2,100.00	2,083.87	152.42	-76.55	4.87	2,079.33	2,074.99	-89.65	-93.92	4.72	242.76	232.76	-142.74	24.263
2,185.00	2,165.55	172.32	-89.10	4.96	2,168.94	2,164.44	-90.13	-99.15	4.77	262.65	252.53	-144.09	25.961
2,200.00	2,180.01	175.69	-91.28	4.98	2,184.93	2,180.41	-89.94	-100.05	4.77	265.79	255.65	-144.18	26.213
2,277.00	2,254.41	192.13	-102.30	5.08	2,260.15	2,255.52	-88.83	-103.82	4.82	281.00	270.74	-144.27	27.379
2,300.00	2,276.71	196.79	-105.54	5.11	2,282.69	2,278.04	-88.50	-104.79	4.84	285.31	275.01	-144.55	27.696
2,368.00	2,342.75	210.01	-114.87	5.20	2,349.82	2,345.10	-87.42	-107.70	4.88	297.57	287.15	-145.19	28.563
2,400.00	2,373.80	216.29	-119.37	5.25	2,380.98	2,376.23	-86.89	-109.10	4.91	303.40	292.95	-145.58	29.022

Anticollision Report for Razor #27J-3409A - Rev_D0

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Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
2,459.00	2,430.64	229.13	-128.60	5.34	2,436.85	2,432.02	-86.13	-112.01	4.95	315.73	305.21	-146.30	30.017
2,500.00	2,469.97	238.48	-135.45	5.41	2,475.84	2,470.93	-85.78	-114.37	4.98	324.96	314.36	-146.03	30.651
2,551.00	2,518.97	249.71	-144.02	5.49	2,524.91	2,519.90	-85.41	-117.46	5.02	336.20	325.49	-145.59	31.394
2,600.00	2,566.13	260.20	-152.23	5.58	2,572.44	2,567.33	-85.12	-120.51	5.07	346.80	335.99	-146.29	32.073
2,642.00	2,606.60	269.03	-159.16	5.66	2,613.57	2,608.37	-84.85	-123.15	5.10	355.74	344.84	-146.84	32.627
2,700.00	2,662.37	281.98	-168.45	5.77	2,669.88	2,664.57	-84.44	-126.73	5.16	368.82	357.83	-152.23	33.565
2,733.00	2,693.94	290.09	-173.55	5.84	2,701.53	2,696.16	-84.23	-128.70	5.19	377.03	366.00	-154.96	34.164
2,800.00	2,758.00	306.84	-183.78	5.98	2,765.79	2,760.30	-83.85	-132.65	5.26	394.06	382.86	-154.73	35.191
2,825.00	2,781.94	312.96	-187.61	6.03	2,789.84	2,784.30	-83.72	-134.14	5.28	400.30	389.04	-154.62	35.553
2,900.00	2,854.15	330.61	-197.49	6.19	2,861.94	2,856.26	-83.40	-138.66	5.36	418.21	406.75	-161.73	36.498
2,917.00	2,870.61	334.46	-199.29	6.22	2,878.27	2,872.56	-83.35	-139.69	5.38	422.07	410.56	-163.51	36.687
3,000.00	2,951.33	352.00	-207.39	6.39	2,958.48	2,952.60	-83.21	-144.68	5.47	439.73	427.98	-162.37	37.451
3,008.00	2,959.14	353.58	-208.14	6.41	2,966.25	2,960.36	-83.20	-145.14	5.48	441.32	429.56	-162.25	37.514
3,100.00	3,049.28	369.97	-216.48	6.59	3,054.17	3,048.14	-83.25	-150.21	5.59	458.04	446.01	-159.42	38.055
3,192.00	3,139.53	386.26	-223.69	6.76	3,143.10	3,136.88	-84.01	-155.92	5.70	475.12	462.88	-168.27	38.794
3,200.00	3,147.36	387.81	-224.25	6.78	3,151.07	3,144.84	-84.08	-156.46	5.71	476.73	464.46	-168.20	38.855
3,283.00	3,228.60	403.78	-230.04	6.94	3,232.74	3,226.29	-84.75	-162.27	5.82	493.22	480.71	-167.54	39.451
3,300.00	3,245.24	407.04	-231.22	6.98	3,249.24	3,242.75	-84.90	-163.48	5.85	496.58	484.03	-167.60	39.566
3,375.00	3,318.68	421.38	-236.36	7.13	3,322.15	3,315.45	-85.62	-168.93	5.95	511.46	498.69	-167.88	40.057
3,400.00	3,343.16	426.15	-238.07	7.18	3,346.47	3,339.70	-85.88	-170.80	5.98	516.43	503.59	-167.30	40.212
3,467.00	3,408.76	438.91	-242.86	7.32	3,411.37	3,404.39	-86.65	-175.91	6.08	529.81	516.77	-165.75	40.618
3,500.00	3,441.06	445.20	-245.33	7.39	3,443.22	3,436.13	-87.07	-178.46	6.13	536.46	523.32	-165.18	40.815
3,558.00	3,497.80	456.33	-249.84	7.52	3,500.51	3,493.24	-87.85	-182.97	6.21	548.27	534.95	-164.21	41.161
3,600.00	3,538.88	464.38	-253.24	7.61	3,542.77	3,535.39	-88.29	-185.94	6.27	556.75	543.30	-163.29	41.383
3,649.00	3,586.82	473.66	-257.33	7.72	3,590.94	3,583.47	-88.89	-189.06	6.35	566.48	552.87	-162.26	41.627
3,700.00	3,636.73	483.21	-261.68	7.83	3,640.54	3,632.96	-89.14	-192.33	6.42	576.53	562.76	-161.86	41.864
3,741.00	3,676.87	490.81	-265.20	7.92	3,678.84	3,671.16	-89.55	-194.89	6.48	584.61	570.70	-161.54	42.047
3,800.00	3,734.66	501.48	-270.45	8.06	3,733.27	3,725.47	-90.39	-198.45	6.57	596.27	582.17	-159.13	42.287
3,832.00	3,766.02	507.10	-273.43	8.13	3,766.61	3,758.74	-90.97	-200.61	6.62	602.50	588.29	-157.81	42.392
3,900.00	3,832.67	518.90	-279.93	8.28	3,840.16	3,832.12	-91.67	-205.54	6.73	615.09	600.65	-157.68	42.583
3,924.00	3,856.19	523.08	-282.23	8.34	3,865.06	3,856.96	-91.75	-207.19	6.77	619.40	604.88	-157.64	42.646
4,000.00	3,930.33	538.42	-288.78	8.52	3,943.26	3,935.01	-91.59	-211.95	6.89	634.72	620.01	-168.32	43.136
4,015.00	3,944.87	541.94	-289.89	8.55	3,958.39	3,950.12	-91.51	-212.83	6.92	638.17	623.42	-169.98	43.266
4,100.00	4,026.80	563.67	-296.14	8.77	4,041.01	4,032.59	-90.89	-217.70	7.05	659.30	644.31	-171.01	43.996
4,106.00	4,032.55	565.30	-296.59	8.78	4,046.42	4,038.00	-90.86	-218.02	7.06	660.90	645.90	-171.07	44.056
4,197.00	4,120.02	589.46	-303.49	9.03	4,129.77	4,121.20	-90.72	-223.03	7.20	684.94	669.61	-169.92	44.685
4,200.00	4,122.91	590.23	-303.72	9.04	4,132.63	4,124.05	-90.72	-223.20	7.20	685.71	670.38	-169.93	44.704
4,289.00	4,208.82	612.55	-310.21	9.28	4,218.27	4,209.55	-90.84	-228.02	7.34	708.18	692.51	-170.40	45.205
4,300.00	4,219.46	615.22	-310.98	9.30	4,229.15	4,220.41	-90.85	-228.64	7.36	710.86	695.15	-170.17	45.251
4,380.00	4,297.13	633.52	-316.60	9.51	4,307.53	4,298.66	-90.88	-233.29	7.49	729.19	713.16	-168.29	45.513
4,400.00	4,316.63	637.77	-317.98	9.56	4,326.38	4,317.48	-90.90	-234.37	7.53	733.46	717.36	-168.17	45.558
4,473.00	4,388.08	651.93	-322.68	9.74	4,395.75	4,386.75	-91.06	-237.99	7.64	747.80	731.42	-167.66	45.649
4,500.00	4,414.61	656.70	-324.27	9.80	4,421.97	4,412.94	-91.16	-239.31	7.69	752.67	736.19	-168.09	45.669
4,563.00	4,476.63	667.24	-327.62	9.95	4,484.21	4,475.09	-91.45	-242.58	7.80	763.44	746.73	-169.17	45.674
4,600.00	4,513.16	672.88	-329.35	10.03	4,523.74	4,514.55	-91.55	-244.88	7.87	769.10	752.23	-169.14	45.607
4,655.00	4,567.64	680.10	-331.57	10.14	4,581.67	4,572.36	-91.48	-248.62	7.97	776.07	758.99	-169.07	45.436
4,700.00	4,612.32	685.20	-333.13	10.23	4,627.50	4,618.11	-91.30	-251.48	8.05	780.83	763.58	-168.92	45.272
4,747.00	4,659.05	690.02	-334.61	10.33	4,672.80	4,663.33	-91.06	-254.11	8.13	785.25	767.83	-168.77	45.084
4,800.00	4,711.86	694.17	-336.13	10.42	4,719.92	4,710.36	-91.08	-256.95	8.21	789.24	771.63	-160.67	44.834
4,839.00	4,750.80	695.95	-337.19	10.49	4,754.97	4,745.34	-91.33	-259.18	8.28	791.14	773.41	-146.07	44.608
4,900.00	4,811.78	696.85	-338.14	10.57	4,811.73	4,801.95	-92.06	-263.22	8.38	792.49	774.55	-69.08	44.180
4,931.00	4,842.78	696.50	-338.13	10.62	4,840.77	4,830.89	-92.57	-265.52	8.44	792.45	774.41	11.25	43.930

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Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
5,000.00	4,911.75	694.54	-337.59	10.70	4,915.74	4,905.67	-93.61	-270.85	8.57	790.98	772.69	10.00	43.253
5,023.00	4,934.73	693.63	-337.35	10.73	4,941.47	4,931.35	-93.80	-272.33	8.62	790.10	771.73	9.86	43.011
5,100.00	5,011.59	689.06	-336.40	10.81	6,386.61	5,728.49	711.19	-284.22	14.55	722.13	696.87	-141.00	28.591
5,115.00	5,026.54	687.87	-336.20	10.83	6,385.00	5,728.56	709.61	-284.50	14.55	707.25	682.04	-142.75	28.056
5,146.00	5,057.22	683.54	-336.20	10.86	6,379.91	5,728.78	704.61	-285.40	14.54	676.80	652.44	-162.62	27.779
5,176.00	5,086.39	676.58	-336.48	10.87	6,372.44	5,729.12	697.26	-286.74	14.54	647.97	624.36	-165.69	27.438
5,200.00	5,109.28	669.39	-336.66	10.87	6,364.98	5,729.46	689.93	-288.09	14.53	625.40	602.37	-168.09	27.153
5,206.00	5,114.93	667.36	-336.72	10.87	6,362.89	5,729.56	687.88	-288.47	14.53	619.85	596.97	-168.57	27.087
5,238.00	5,144.15	654.39	-337.45	10.86	6,349.78	5,730.19	675.01	-290.89	14.52	591.23	569.42	-171.32	27.098
5,268.00	5,170.13	639.46	-338.68	10.85	6,334.84	5,730.94	660.36	-293.70	14.50	565.99	544.94	-172.42	26.889
5,299.00	5,195.92	622.32	-340.13	10.82	6,317.77	5,731.84	643.63	-296.99	14.49	541.07	520.49	-172.87	26.293
5,300.00	5,196.73	621.75	-340.18	10.82	6,317.20	5,731.87	643.07	-297.10	14.49	540.28	519.72	-172.88	26.273
5,329.00	5,220.11	604.64	-341.48	10.79	6,300.15	5,732.82	626.39	-300.47	14.47	517.79	497.65	-173.25	25.704
5,359.00	5,243.93	586.43	-342.58	10.75	6,282.00	5,733.89	608.64	-304.13	14.46	494.96	474.88	-173.34	24.655
5,389.00	5,267.55	567.96	-343.56	10.72	6,263.55	5,735.02	590.62	-307.93	14.44	472.36	452.47	-173.74	23.744
5,400.00	5,276.11	561.07	-344.00	10.71	6,256.64	5,735.46	583.87	-309.37	14.44	464.20	444.39	-173.96	23.429
5,420.00	5,291.47	548.31	-345.03	10.69	6,243.80	5,736.29	571.35	-312.08	14.43	449.62	429.95	-174.34	22.867
5,451.00	5,314.73	527.89	-346.79	10.66	6,223.22	5,737.67	551.30	-316.49	14.41	427.66	408.36	-174.72	22.160
5,482.00	5,337.45	506.86	-348.40	10.62	6,200.88	5,739.22	529.55	-321.36	13.91	406.31	386.88	-175.10	20.911
5,500.00	5,350.53	494.53	-349.31	10.60	6,187.59	5,740.14	516.62	-324.27	13.52	394.03	374.43	-175.36	20.107
5,513.00	5,359.98	485.63	-349.99	10.59	6,177.99	5,740.80	507.28	-326.37	13.25	385.15	365.48	-175.54	19.575
5,543.00	5,381.68	464.95	-351.26	10.56	6,155.82	5,742.31	485.69	-331.23	12.64	364.77	345.17	-175.93	18.611
5,573.00	5,402.95	443.81	-352.09	10.52	6,133.35	5,743.82	463.82	-336.16	12.07	344.82	325.54	-176.65	17.880
5,600.00	5,421.44	424.15	-352.46	10.49	6,112.66	5,745.19	443.69	-340.71	11.62	327.54	308.73	-177.38	17.410
5,605.00	5,424.79	420.43	-352.47	10.49	6,108.78	5,745.45	439.91	-341.56	11.55	324.43	305.71	-177.54	17.336
5,637.00	5,445.64	396.16	-352.23	10.45	6,084.41	5,747.06	416.20	-346.92	11.32	305.13	286.79	-178.68	16.635
5,669.00	5,465.87	371.38	-351.62	10.42	6,057.03	5,748.86	389.55	-352.97	11.24	286.57	268.31	-179.80	15.697
5,700.00	5,484.83	346.86	-351.02	10.39	6,029.32	5,750.39	362.62	-359.28	11.15	269.15	251.10	-177.98	14.907
5,732.00	5,503.39	320.80	-350.50	10.36	5,994.36	5,751.68	328.58	-367.17	11.06	251.97	234.07	-175.54	14.081
5,764.00	5,521.35	294.32	-349.90	10.33	5,908.43	5,742.49	245.18	-384.45	10.84	232.05	214.21	-167.35	13.004
5,795.00	5,538.21	268.31	-349.46	10.31	5,843.62	5,720.72	185.23	-395.20	10.68	208.35	190.42	-157.69	11.621
5,800.00	5,540.84	264.06	-349.43	10.30	5,835.81	5,717.24	178.32	-396.32	10.66	204.29	186.34	-156.29	11.385
5,827.00	5,554.39	240.71	-349.35	10.29	5,802.83	5,700.76	150.04	-400.24	10.58	182.00	163.93	-149.84	10.075
5,858.00	5,568.43	213.08	-349.71	10.27	5,769.26	5,681.30	122.78	-402.18	10.49	155.99	137.70	-142.71	8.527
5,890.00	5,581.05	183.69	-350.47	10.25	5,744.62	5,665.46	103.92	-401.96	10.42	129.06	110.49	-136.48	6.952
5,900.00	5,584.66	174.37	-350.72	10.25	5,737.78	5,660.89	98.84	-401.68	10.40	120.75	102.01	-133.53	6.446
5,921.00	5,592.06	154.72	-351.27	10.23	5,724.44	5,651.78	89.13	-400.88	10.36	103.43	84.30	-126.68	5.407
5,953.00	5,602.81	124.59	-352.04	10.21	5,706.15	5,638.90	76.26	-399.17	10.31	78.01	58.22	-114.49	3.942
5,984.00	5,612.02	95.00	-352.61	10.19	5,689.94	5,627.16	65.28	-397.05	10.27	56.47	36.16	-101.91	2.780
6,000.00	5,616.27	79.58	-352.87	10.18	5,681.82	5,621.21	59.91	-395.79	10.25	47.88	27.36	-93.10	2.334
6,016.00	5,620.39	64.12	-353.19	10.17	5,674.02	5,615.44	54.83	-394.45	10.23	42.33	21.76	-83.76	2.057
6,027.71	5,623.28	52.77	-353.42	10.17	5,668.44	5,611.28	51.25	-393.41	10.21	41.01	20.50	-76.94	1.999
6,047.00	5,627.67	33.99	-353.66	10.20	5,659.96	5,604.93	45.89	-391.76	10.19	44.53	24.28	-66.28	2.200
6,079.00	5,633.60	2.55	-353.73	10.28	5,645.76	5,594.12	37.11	-388.97	10.15	61.38	41.97	-48.88	3.162
6,100.00	5,636.74	-18.21	-353.61	10.33	5,637.00	5,587.35	31.83	-387.23	10.13	76.06	57.14	-40.66	4.019
6,112.00	5,638.42	-30.09	-353.51	10.37	5,631.42	5,583.00	28.52	-386.11	10.12	85.12	66.48	-36.12	4.565
6,200.00	5,647.45	-117.61	-352.98	13.37	5,596.20	5,554.75	8.77	-378.91	10.03	157.13	139.67	-17.62	9.000
6,221.00	5,648.72	-138.57	-352.96	14.15	5,587.48	5,547.60	4.13	-377.07	10.01	174.84	157.55	-14.90	10.110
6,300.00	5,653.50	-217.42	-352.57	14.20	5,553.08	5,519.25	-13.60	-369.01	9.92	242.98	225.93	-7.07	14.252
6,315.00	5,654.56	-232.38	-352.42	14.21	5,546.40	5,513.78	-16.97	-367.17	9.91	256.13	239.11	-5.77	15.046
6,400.00	5,659.08	-317.25	-351.76	14.27	5,522.58	5,494.17	-28.48	-360.09	9.84	331.17	314.38	-2.69	19.718
6,410.00	5,659.40	-327.25	-351.72	14.27	5,520.13	5,492.12	-29.60	-359.34	9.84	340.06	323.29	-2.44	20.273

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-2210B - Plan C - Actual Field Surveys_Sperry

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
6,500.00	5,660.22	-417.24	-352.30	14.34	5,501.07	5,475.99	-37.84	-353.41	9.78	420.46	403.81	2.23	25.253
6,504.00	5,660.17	-421.24	-352.36	14.34	5,500.31	5,475.34	-38.14	-353.18	9.78	424.05	407.41	2.24	25.475
6,599.00	5,659.29	-516.22	-353.62	14.41	5,482.00	5,459.41	-45.17	-347.51	9.73	510.57	493.89	-0.46	30.609
6,600.00	5,659.29	-517.22	-353.63	14.41	5,482.00	5,459.41	-45.17	-347.51	9.73	511.50	494.81	-0.40	30.661
6,693.00	5,659.15	-610.17	-356.52	14.48	5,470.48	5,449.20	-49.18	-344.02	9.70	598.07	581.24	4.64	35.531
6,700.00	5,659.17	-617.16	-356.89	14.49	5,469.56	5,448.37	-49.49	-343.75	9.70	604.65	587.80	4.96	35.893
6,788.00	5,659.67	-704.93	-363.18	14.56	5,451.00	5,431.59	-55.33	-338.39	9.65	687.93	670.92	8.45	40.426
6,800.00	5,659.76	-716.89	-364.20	14.58	5,451.00	5,431.59	-55.33	-338.39	9.65	699.30	682.31	7.47	41.153
6,883.00	5,659.59	-799.71	-369.49	14.66	5,451.00	5,431.59	-55.33	-338.39	9.65	778.26	761.37	0.54	46.066
6,900.00	5,659.40	-816.70	-370.16	14.68	5,451.00	5,431.59	-55.33	-338.39	9.65	794.50	777.60	-1.37	47.009
6,977.00	5,658.30	-893.68	-371.02	14.77	5,438.41	5,420.03	-58.90	-334.92	9.62	868.05	850.94	-10.52	50.734
7,000.00	5,657.93	-916.67	-370.73	14.80	5,435.95	5,417.75	-59.56	-334.25	9.61	890.07	872.92	-10.65	51.900
7,072.00	5,656.94	-988.66	-369.82	14.90	5,420.00	5,402.90	-63.60	-330.06	9.57	959.34	942.07	-11.17	55.546
7,100.00	5,656.59	-1,016.66	-369.60	14.94	5,420.00	5,402.90	-63.60	-330.06	9.57	986.27	969.03	-9.19	57.208
7,166.00	5,655.60	-1,082.65	-370.14	15.07	5,420.00	5,402.90	-63.60	-330.06	9.57	1,049.96	1,032.74	-4.28	60.992
7,200.00	5,655.12	-1,116.64	-370.53	15.15	5,420.00	5,402.90	-63.60	-330.06	9.57	1,082.89	1,065.52	-8.04	62.341
7,261.00	5,654.73	-1,177.63	-369.85	15.33	5,420.00	5,402.90	-63.60	-330.06	9.57	1,142.18	1,124.30	-15.31	63.899
7,300.00	5,654.63	-1,216.63	-369.39	15.47	5,420.00	5,402.90	-63.60	-330.06	9.57	1,180.21	1,162.64	-8.26	67.164
7,355.00	5,654.34	-1,271.61	-370.61	15.70	5,420.00	5,402.90	-63.60	-330.06	9.57	1,233.96	1,216.41	2.25	70.300
7,400.00	5,654.03	-1,316.56	-372.60	15.92	5,406.73	5,390.41	-66.55	-326.68	9.54	1,277.72	1,260.10	2.63	72.520
7,450.00	5,653.67	-1,366.50	-375.06	16.19	5,404.38	5,388.20	-67.03	-326.09	9.53	1,326.62	1,308.89	3.88	74.803
7,500.00	5,653.42	-1,416.47	-376.66	16.49	5,402.14	5,386.08	-67.47	-325.52	9.53	1,375.61	1,357.72	-7.34	76.874
7,545.00	5,653.41	-1,461.47	-376.41	16.76	5,389.00	5,373.56	-69.83	-322.26	9.50	1,419.95	1,401.25	-17.48	75.940
7,600.00	5,653.58	-1,516.46	-375.76	17.12	5,389.00	5,373.56	-69.83	-322.26	9.50	1,473.89	1,455.57	-11.32	80.429
7,639.00	5,653.80	-1,555.46	-376.06	17.37	5,389.00	5,373.56	-69.83	-322.26	9.50	1,512.24	1,494.09	-6.50	83.333
7,700.00	5,654.16	-1,616.43	-378.07	17.79	5,389.00	5,373.56	-69.83	-322.26	9.50	1,572.31	1,554.05	4.61	86.137
7,734.00	5,654.33	-1,650.36	-380.10	18.03	5,389.00	5,373.56	-69.83	-322.26	9.50	1,605.80	1,587.09	10.82	85.823
7,800.00	5,654.58	-1,716.12	-385.69	18.51	5,389.00	5,373.56	-69.83	-322.26	9.50	1,670.81	1,650.83	20.49	83.608
7,828.00	5,654.67	-1,743.96	-388.68	18.71	5,389.00	5,373.56	-69.83	-322.26	9.50	1,698.38	1,677.73	24.34	82.266
7,900.00	5,655.24	-1,815.84	-391.45	19.23	5,389.00	5,373.56	-69.83	-322.26	9.50	1,769.47	1,748.24	-27.49	83.379
7,923.00	5,655.59	-1,838.79	-390.06	19.40	5,389.00	5,373.56	-69.83	-322.26	9.50	1,792.12	1,768.47	-40.99	75.784
8,000.00	5,656.61	-1,915.59	-384.67	19.98	5,376.20	5,361.32	-71.90	-319.14	9.47	1,867.87	1,845.58	-31.52	83.791
8,018.00	5,656.78	-1,933.57	-383.73	20.11	5,374.18	5,359.39	-72.22	-318.66	9.46	1,885.61	1,863.65	-29.24	85.896
8,100.00	5,657.14	-2,015.50	-380.45	20.76	5,365.07	5,350.67	-73.67	-316.48	9.44	1,966.44	1,945.41	-22.27	93.483
8,113.00	5,657.14	-2,028.49	-380.07	20.86	5,359.00	5,344.84	-74.62	-315.05	9.43	1,979.27	1,958.40	-21.07	94.835
8,200.00	5,654.81	-2,115.43	-378.10	21.56	5,352.50	5,338.60	-75.63	-313.53	9.41	2,064.72	2,044.78	-13.41	103.579
8,205.00	5,654.54	-2,120.42	-378.01	21.60	5,351.77	5,337.89	-75.74	-313.37	9.41	2,069.60	2,049.70	-13.07	103.989
8,244.17	5,653.36	-2,159.56	-377.00	21.82	5,346.65	5,332.97	-76.53	-312.20	9.40	2,108.06	2,086.49	-22.83	97.998
8,300.00	5,653.11	-2,215.35	-375.05	21.97	5,340.33	5,326.89	-77.50	-310.80	9.39	2,163.10	2,141.53	-22.66	100.263
8,389.17	5,652.72	-2,304.47	-371.94	22.24	5,329.00	5,315.96	-79.21	-308.36	9.36	2,251.05	2,229.48	-22.35	104.350
8,400.00	5,652.68	-2,315.29	-371.58	22.27	5,329.00	5,315.96	-79.21	-308.36	9.36	2,261.73	2,240.32	-21.39	105.631
8,439.76	5,652.67	-2,355.04	-370.59	22.40	5,329.00	5,315.96	-79.21	-308.36	9.36	2,301.01	2,280.20	-17.57	110.614
8,500.00	5,652.79	-2,415.27	-369.47	22.60	5,329.00	5,315.96	-79.21	-308.36	9.36	2,360.58	2,339.73	-17.57	113.216
8,600.00	5,652.99	-2,515.25	-367.63	22.97	5,329.00	5,315.96	-79.21	-308.36	9.36	2,459.55	2,438.60	-17.57	117.437
8,700.00	5,653.20	-2,615.23	-365.79	23.38	5,329.00	5,315.96	-79.21	-308.36	9.36	2,558.60	2,537.54	-17.57	121.534
8,800.00	5,653.40	-2,715.22	-363.94	23.82	5,315.39	5,302.77	-81.13	-305.60	9.33	2,657.56	2,636.45	-17.35	125.869
8,900.00	5,653.60	-2,815.20	-362.10	24.29	5,312.45	5,299.91	-81.52	-305.03	9.32	2,756.67	2,735.44	-17.30	129.803
9,000.00	5,653.81	-2,915.18	-360.25	24.79	5,299.00	5,286.79	-83.14	-302.54	9.30	2,855.93	2,834.61	-17.06	133.951
9,100.00	5,654.01	-3,015.16	-358.41	25.32	5,299.00	5,286.79	-83.14	-302.54	9.30	2,955.09	2,933.61	-17.06	137.544
9,200.00	5,654.22	-3,115.15	-356.56	25.88	5,299.00	5,286.79	-83.14	-302.54	9.30	3,054.31	3,032.65	-17.06	140.998
9,300.00	5,654.42	-3,215.13	-354.72	26.46	5,299.00	5,286.79	-83.14	-302.54	9.30	3,153.58	3,131.73	-17.06	144.314

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-2210B - Plan C - Actual Field Surveys_Sperry

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft . Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
9,400.00	5,654.62	-3,315.11	-352.87	27.06	5,299.00	5,286.79	-83.14	-302.54	9.30	3,252.89	3,230.84	-17.06	147.493
9,500.00	5,654.83	-3,415.10	-351.03	27.69	5,299.00	5,286.79	-83.14	-302.54	9.30	3,352.25	3,329.98	-17.06	150.537
9,584.92	5,655.00	-3,500.00	-349.46	28.23	5,299.00	5,286.79	-83.14	-302.54	9.30	3,436.65	3,414.19	-17.06	153.019
9,600.00	5,655.06	-3,515.08	-349.21	28.32	5,299.00	5,286.79	-83.14	-302.54	9.30	3,451.64	3,429.52	-15.44	155.999
9,653.95	5,655.66	-3,569.03	-348.84	28.63	5,299.00	5,286.79	-83.14	-302.54	9.30	3,505.34	3,484.39	-8.31	167.320
9,700.00	5,656.44	-3,615.07	-348.86	28.91	5,299.00	5,286.79	-83.14	-302.54	9.30	3,551.21	3,530.18	-8.31	168.861
9,800.00	5,658.14	-3,715.05	-348.90	29.59	5,299.00	5,286.79	-83.14	-302.54	9.30	3,650.84	3,629.63	-8.31	172.096
9,900.00	5,659.84	-3,815.04	-348.95	30.28	5,299.00	5,286.79	-83.14	-302.54	9.30	3,750.49	3,729.09	-8.31	175.207
10,000.00	5,661.54	-3,915.02	-348.99	30.99	5,299.00	5,286.79	-83.14	-302.54	9.30	3,850.16	3,828.55	-8.31	178.194
10,100.00	5,663.24	-4,015.01	-349.03	31.72	5,299.00	5,286.79	-83.14	-302.54	9.30	3,949.84	3,928.03	-8.31	181.062
10,200.00	5,664.95	-4,114.99	-349.08	32.46	5,299.00	5,286.79	-83.14	-302.54	9.30	4,049.54	4,027.51	-8.31	183.813
10,300.00	5,666.65	-4,214.98	-349.12	33.21	5,285.60	5,273.68	-84.52	-300.17	9.27	4,149.12	4,126.87	-8.39	186.518
10,400.00	5,668.35	-4,314.97	-349.16	33.97	5,284.39	5,272.49	-84.63	-299.95	9.26	4,248.82	4,226.35	-8.40	189.049
10,500.00	5,670.05	-4,414.95	-349.21	34.74	5,283.22	5,271.35	-84.74	-299.75	9.26	4,348.54	4,325.83	-8.41	191.474
10,600.00	5,671.75	-4,514.94	-349.25	35.53	5,282.10	5,270.25	-84.84	-299.55	9.26	4,448.26	4,425.31	-8.41	193.796
10,700.00	5,673.45	-4,614.92	-349.29	36.32	5,268.00	5,256.42	-85.98	-297.06	9.23	4,548.12	4,524.93	-8.48	196.097
10,800.00	5,675.15	-4,714.91	-349.34	37.12	5,268.00	5,256.42	-85.98	-297.06	9.23	4,647.85	4,624.40	-8.48	198.216
10,900.00	5,676.85	-4,814.89	-349.38	37.93	5,268.00	5,256.42	-85.98	-297.06	9.23	4,747.58	4,723.88	-8.48	200.246
11,000.00	5,678.55	-4,914.88	-349.42	38.75	5,268.00	5,256.42	-85.98	-297.06	9.23	4,847.33	4,823.36	-8.48	202.188
11,085.13	5,680.00	-5,000.00	-349.46	39.46	5,268.00	5,256.42	-85.98	-297.06	9.23	4,932.26	4,908.06	-8.48	203.777
11,100.00	5,680.21	-5,014.86	-349.47	39.58	5,268.00	5,256.42	-85.98	-297.06	9.23	4,947.09	4,922.95	-8.04	204.933
11,120.18	5,680.38	-5,035.04	-349.47	39.75	5,268.00	5,256.42	-85.98	-297.06	9.23	4,967.20	4,943.12	-7.52	206.298
11,200.00	5,680.76	-5,114.86	-349.47	40.41	5,268.00	5,256.42	-85.98	-297.06	9.23	5,046.77	5,022.48	-7.52	207.742
11,300.00	5,681.24	-5,214.86	-349.47	41.25	5,268.00	5,256.42	-85.98	-297.06	9.23	5,146.46	5,121.89	-7.52	209.481
11,400.00	5,681.72	-5,314.86	-349.47	42.10	5,268.00	5,256.42	-85.98	-297.06	9.23	5,246.16	5,221.32	-7.52	211.148
11,500.00	5,682.20	-5,414.86	-349.46	42.95	5,268.00	5,256.42	-85.98	-297.06	9.23	5,345.88	5,320.75	-7.52	212.745
11,600.00	5,682.68	-5,514.86	-349.46	43.81	5,268.00	5,256.42	-85.98	-297.06	9.23	5,445.60	5,420.19	-7.52	214.276
11,700.00	5,683.16	-5,614.86	-349.46	44.67	5,268.00	5,256.42	-85.98	-297.06	9.23	5,545.33	5,519.63	-7.52	215.743
11,800.00	5,683.64	-5,714.86	-349.46	45.54	5,268.00	5,256.42	-85.98	-297.06	9.23	5,645.08	5,619.08	-7.52	217.150
11,900.00	5,684.11	-5,814.85	-349.46	46.41	5,268.00	5,256.42	-85.98	-297.06	9.23	5,744.83	5,718.54	-7.52	218.499
12,000.00	5,684.59	-5,914.85	-349.46	47.29	5,268.00	5,256.42	-85.98	-297.06	9.23	5,844.59	5,818.00	-7.52	219.793
12,085.15	5,685.00	-6,000.00	-349.46	48.03	5,268.00	5,256.42	-85.98	-297.06	9.23	5,929.54	5,902.69	-7.52	220.854
12,100.00	5,685.03	-6,014.85	-349.46	48.17	5,268.00	5,256.42	-85.98	-297.06	9.23	5,944.36	5,917.60	-6.99	222.156
12,198.86	5,683.29	-6,113.69	-349.46	49.04	5,268.00	5,256.42	-85.98	-297.06	9.23	6,042.82	6,016.25	-4.72	227.470
12,200.00	5,683.25	-6,114.83	-349.46	49.05	5,268.00	5,256.42	-85.98	-297.06	9.23	6,043.95	6,017.38	-4.72	227.484
12,300.00	5,679.76	-6,214.77	-349.46	49.94	5,268.00	5,256.42	-85.98	-297.06	9.23	6,143.41	6,116.54	-4.72	228.689
12,400.00	5,676.27	-6,314.71	-349.46	50.83	5,268.00	5,256.42	-85.98	-297.06	9.23	6,242.88	6,215.72	-4.72	229.847
12,500.00	5,672.78	-6,414.65	-349.46	51.72	5,268.00	5,256.42	-85.98	-297.06	9.23	6,342.37	6,314.91	-4.72	230.960
12,600.00	5,669.29	-6,514.59	-349.46	52.62	5,268.00	5,256.42	-85.98	-297.06	9.23	6,441.87	6,414.11	-4.72	232.031
12,700.00	5,665.80	-6,614.53	-349.46	53.52	5,268.00	5,256.42	-85.98	-297.06	9.23	6,541.39	6,513.32	-4.72	233.062
12,800.00	5,662.31	-6,714.47	-349.46	54.42	5,254.14	5,242.80	-86.92	-294.67	9.20	6,640.84	6,612.47	-4.84	234.070
12,900.00	5,658.82	-6,814.41	-349.46	55.33	5,252.34	5,241.03	-87.04	-294.37	9.20	6,740.37	6,711.69	-4.85	235.024
13,000.00	5,655.33	-6,914.34	-349.46	56.23	5,250.58	5,239.29	-87.14	-294.08	9.19	6,839.91	6,810.92	-4.86	235.942
13,100.00	5,651.84	-7,014.28	-349.46	57.14	5,238.00	5,226.90	-87.86	-292.03	9.17	6,939.50	6,910.20	-4.95	236.851
13,117.21	5,651.24	-7,031.48	-349.46	57.30	5,238.00	5,226.90	-87.86	-292.03	9.17	6,956.63	6,927.28	-4.95	236.998

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-3411A (Not Approved) - Plan C - Rev C0 (In Progress)

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre		Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre		Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
		+N/-S (usft)	+E/-W (usft)				+N/-S (usft)	+E/-W (usft)					
100.00	100.00	0.04	-0.03	3.29	100.00	100.00	0.00	65.33	3.29	65.36	57.82	127.19	8.662
177.00	177.00	0.14	-0.10	3.29	177.00	177.00	0.00	65.33	3.30	65.43	57.88	127.27	8.657
200.00	200.00	0.19	-0.13	3.30	200.00	200.00	0.00	65.33	3.30	65.46	57.89	105.01	8.652
268.00	268.00	0.65	-0.17	3.31	268.00	268.00	0.00	65.33	3.32	65.51	57.91	92.66	8.622
300.00	300.00	0.97	-0.19	3.32	300.00	300.00	0.00	65.33	3.33	65.53	57.91	95.17	8.603
359.00	358.99	1.58	-0.26	3.34	358.99	358.99	0.00	65.33	3.36	65.61	57.95	99.41	8.564
400.00	399.99	2.02	-0.35	3.36	399.99	399.99	0.00	65.33	3.38	65.71	58.01	107.09	8.537
451.00	450.99	2.56	-0.54	3.38	450.99	450.99	0.00	65.33	3.40	65.92	58.17	116.10	8.508
500.00	499.98	3.08	-0.76	3.41	499.98	499.98	0.00	65.33	3.43	66.17	58.36	114.51	8.479
544.00	543.98	3.57	-0.95	3.43	543.98	543.98	0.00	65.33	3.46	66.38	58.52	113.18	8.447
600.00	599.98	4.08	-1.19	3.46	599.98	599.98	0.00	65.33	3.51	66.65	58.72	126.37	8.401
635.00	634.98	4.28	-1.35	3.49	634.77	634.77	0.20	65.40	3.53	66.87	58.89	141.70	8.377
700.00	699.98	4.48	-1.60	3.53	699.35	699.33	1.64	65.88	3.59	67.54	59.46	149.82	8.358
727.00	726.98	4.52	-1.68	3.55	726.15	726.11	2.64	66.21	3.61	67.92	59.80	158.17	8.360
800.00	799.98	4.49	-1.93	3.61	798.48	798.32	6.52	67.51	3.69	69.49	61.23	-157.76	8.421
819.00	818.98	4.44	-2.02	3.62	817.26	817.05	7.82	67.94	3.71	70.07	61.78	-153.85	8.455
900.00	899.98	4.28	-2.30	3.70	897.10	896.57	14.60	70.20	3.79	73.32	64.87	-159.73	8.681
911.00	910.97	4.27	-2.32	3.71	907.91	907.32	15.69	70.56	3.81	73.86	65.40	-160.77	8.723
993.00	992.97	4.89	-2.69	3.79	988.27	987.08	24.93	73.65	3.90	79.14	70.50	100.47	9.154
1,000.00	999.97	5.00	-2.74	3.80	995.11	993.86	25.81	73.94	3.91	79.69	71.03	97.72	9.201
1,087.00	1,086.93	7.57	-3.42	3.89	1,079.92	1,077.68	38.05	78.02	4.02	87.46	78.59	80.44	9.863
1,100.00	1,099.91	8.13	-3.53	3.91	1,092.56	1,090.13	40.07	78.70	4.04	88.75	79.85	77.92	9.973
1,176.00	1,175.78	12.54	-3.97	4.00	1,166.28	1,162.60	52.92	82.99	4.14	96.77	87.68	67.85	10.646
1,200.00	1,199.72	14.29	-4.09	4.03	1,189.55	1,185.40	57.34	84.46	4.18	99.50	90.35	68.42	10.870
1,268.00	1,267.49	19.86	-4.76	4.12	1,256.93	1,251.36	70.36	88.80	4.28	107.54	98.20	69.56	11.513
1,300.00	1,299.35	22.82	-5.26	4.16	1,288.66	1,282.43	76.49	90.85	4.33	111.37	101.94	70.53	11.810
1,360.00	1,359.01	29.01	-6.57	4.25	1,348.18	1,340.71	87.99	94.69	4.43	118.60	109.00	72.13	12.348
1,400.00	1,398.73	33.60	-7.76	4.31	1,387.88	1,379.57	95.66	97.24	4.49	123.47	113.74	74.26	12.695
1,451.00	1,449.28	40.00	-9.75	4.38	1,438.49	1,429.12	105.43	100.51	4.58	129.78	119.90	76.73	13.131
1,500.00	1,497.77	46.65	-12.21	4.46	1,487.08	1,476.69	114.82	103.64	4.67	136.06	126.02	80.31	13.549
1,542.00	1,539.25	52.69	-14.82	4.52	1,528.69	1,517.43	122.86	106.32	4.73	141.68	131.83	83.14	14.381
1,600.00	1,596.52	60.92	-18.80	4.57	1,586.10	1,573.64	133.95	110.02	4.79	149.84	139.87	86.20	15.042
1,636.00	1,632.11	65.72	-21.34	4.60	1,621.70	1,608.50	140.83	112.31	4.81	155.12	145.11	88.12	15.493
1,700.00	1,695.37	74.10	-26.29	4.62	1,684.93	1,670.40	153.04	116.39	4.83	164.96	154.92	91.91	16.432
1,728.00	1,723.02	77.79	-28.69	4.62	1,712.56	1,697.45	158.38	118.17	4.84	169.45	159.40	93.50	16.856
1,800.00	1,793.94	87.89	-35.93	4.65	1,783.48	1,766.88	172.08	122.74	4.88	181.65	171.54	97.62	17.980
1,819.00	1,812.59	90.74	-38.13	4.65	1,802.15	1,785.16	175.68	123.94	4.89	185.03	174.92	98.62	18.291
1,900.00	1,891.68	105.13	-48.01	4.69	1,881.73	1,863.07	191.06	129.07	4.94	198.90	188.69	93.47	19.498
1,911.00	1,902.35	107.40	-49.38	4.70	1,892.53	1,873.64	193.14	129.77	4.95	200.67	190.46	93.03	19.650
2,000.00	1,988.11	127.83	-61.59	4.77	1,979.64	1,958.93	209.97	135.38	5.01	215.39	205.05	95.66	20.830
2,002.00	1,990.02	128.33	-61.89	4.77	1,981.59	1,960.84	210.35	135.51	5.02	215.74	205.39	95.72	20.857
2,094.00	2,078.12	150.97	-75.65	4.86	2,071.33	2,048.70	227.68	141.29	5.10	231.98	221.47	99.66	22.080
2,100.00	2,083.87	152.42	-76.55	4.87	2,077.19	2,054.44	228.81	141.67	5.10	233.07	222.55	99.92	22.160
2,185.00	2,165.55	172.32	-89.10	4.96	2,160.19	2,135.70	244.85	147.02	5.19	248.80	238.11	103.31	23.280
2,200.00	2,180.01	175.69	-91.28	4.98	2,174.85	2,150.05	247.68	147.96	5.21	251.63	240.91	103.97	23.474
2,277.00	2,254.41	192.13	-102.30	5.08	2,250.17	2,223.79	262.23	152.82	5.29	266.34	255.45	107.18	24.458
2,300.00	2,276.71	196.79	-105.54	5.11	2,272.68	2,245.83	266.58	154.27	5.32	270.78	259.84	107.77	24.743
2,368.00	2,342.75	210.01	-114.87	5.20	2,339.30	2,311.05	279.45	158.56	5.41	283.89	272.78	109.40	25.557
2,400.00	2,373.80	216.29	-119.37	5.25	2,370.62	2,341.72	285.50	160.58	5.45	290.16	278.97	109.61	25.935
2,459.00	2,430.64	229.13	-128.60	5.34	2,428.15	2,398.05	296.61	164.29	5.53	302.32	290.98	110.23	26.665
2,500.00	2,469.97	238.48	-135.45	5.41	2,468.02	2,437.08	304.31	166.86	5.59	311.13	299.68	111.97	27.164
2,551.00	2,518.97	249.71	-144.02	5.49	2,517.62	2,485.63	313.89	170.05	5.66	322.30	310.70	114.08	27.784

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-3411A (Not Approved) - Plan C - Rev C0 (In Progress)

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft . Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
2,600.00	2,566.13	260.20	-152.23	5.58	2,565.28	2,532.30	323.10	173.12	5.74	333.10	321.35	114.82	28.348
2,642.00	2,606.60	269.03	-159.16	5.66	2,606.16	2,572.33	331.00	175.76	5.80	342.32	330.44	115.41	28.813
2,700.00	2,662.37	281.98	-168.45	5.77	2,662.66	2,627.64	341.91	179.40	5.89	354.68	342.60	111.23	29.363
2,733.00	2,693.94	290.09	-173.55	5.84	2,694.82	2,659.12	348.12	181.47	5.95	361.42	349.22	109.25	29.644
2,800.00	2,758.00	306.84	-183.78	5.98	2,760.11	2,723.05	360.74	185.68	6.06	375.01	362.58	111.20	30.184
2,825.00	2,781.94	312.96	-187.61	6.03	2,784.48	2,746.91	365.45	187.25	6.10	380.14	367.62	111.91	30.383
2,900.00	2,854.15	330.61	-197.49	6.19	2,857.95	2,818.84	379.64	191.99	6.24	394.14	381.33	106.86	30.782
2,917.00	2,870.61	334.46	-199.29	6.22	2,874.70	2,835.23	382.87	193.07	6.27	396.91	384.04	105.43	30.840
3,000.00	2,951.33	352.00	-207.39	6.39	2,956.59	2,915.41	398.69	198.34	6.42	409.98	396.81	107.41	31.125
3,008.00	2,959.14	353.58	-208.14	6.41	2,964.49	2,923.14	400.22	198.85	6.43	411.23	398.03	107.59	31.150
3,100.00	3,049.28	369.97	-216.48	6.59	3,055.37	3,012.12	417.77	204.71	6.61	425.52	411.98	110.93	31.432
3,192.00	3,139.53	386.26	-223.69	6.76	3,146.41	3,101.25	435.36	210.58	6.79	438.71	424.82	101.95	31.590
3,200.00	3,147.36	387.81	-224.25	6.78	3,154.34	3,109.02	436.89	211.09	6.81	439.77	425.85	102.01	31.596
3,283.00	3,228.60	403.78	-230.04	6.94	3,236.59	3,189.54	452.78	216.39	6.98	450.80	436.56	102.57	31.658
3,300.00	3,245.24	407.04	-231.22	6.98	3,253.44	3,206.04	456.04	217.47	7.01	453.06	438.76	102.49	31.667
3,375.00	3,318.68	421.38	-236.36	7.13	3,327.78	3,278.82	470.40	222.27	7.17	462.96	448.35	102.10	31.695
3,400.00	3,343.16	426.15	-238.07	7.18	3,352.55	3,303.08	475.18	223.86	7.22	466.25	451.55	102.61	31.703
3,467.00	3,408.76	438.91	-242.86	7.32	3,418.94	3,368.07	488.01	228.14	7.36	475.30	460.32	103.98	31.735
3,500.00	3,441.06	445.20	-245.33	7.39	3,451.62	3,400.06	494.32	230.25	7.44	479.86	464.75	104.47	31.753
3,558.00	3,497.80	456.33	-249.84	7.52	3,509.03	3,456.27	505.41	233.95	7.56	488.04	472.69	105.34	31.793
3,600.00	3,538.88	464.38	-253.24	7.61	3,550.58	3,496.96	513.44	236.62	7.65	494.10	478.57	106.25	31.823
3,649.00	3,586.82	473.66	-257.33	7.72	3,599.05	3,544.41	522.80	239.75	7.76	501.30	485.57	107.32	31.866
3,700.00	3,636.73	483.21	-261.68	7.83	3,649.48	3,593.78	532.54	243.00	7.88	508.90	492.95	107.77	31.905
3,741.00	3,676.87	490.81	-265.20	7.92	3,690.01	3,633.46	540.37	245.61	7.97	515.04	498.91	108.13	31.936
3,800.00	3,734.66	501.48	-270.45	8.06	3,748.31	3,690.54	551.63	249.37	8.10	524.09	507.71	110.56	31.997
3,832.00	3,766.02	507.10	-273.43	8.13	3,779.91	3,721.48	557.74	251.40	8.17	529.15	512.64	111.90	32.038
3,900.00	3,832.67	518.90	-279.93	8.28	3,847.03	3,787.19	570.70	255.73	8.33	540.07	523.26	112.05	32.125
3,924.00	3,856.19	523.08	-282.23	8.34	3,870.71	3,810.38	575.28	257.26	8.39	543.94	527.02	112.10	32.155
4,000.00	3,930.33	538.42	-288.78	8.52	3,945.84	3,883.93	589.79	262.10	8.56	555.21	537.94	101.49	32.142
4,015.00	3,944.87	541.94	-289.89	8.55	3,960.68	3,898.46	592.66	263.05	8.60	557.20	539.86	99.89	32.127
4,100.00	4,026.80	563.67	-296.14	8.77	4,044.69	3,980.71	608.89	268.47	8.80	568.29	550.54	99.19	32.018
4,106.00	4,032.55	565.30	-296.59	8.78	4,050.61	3,986.51	610.03	268.85	8.81	569.08	551.30	99.16	32.010
4,197.00	4,120.02	589.46	-303.49	9.03	4,140.46	4,074.48	627.39	274.64	9.03	581.16	562.94	101.08	31.892
4,200.00	4,122.91	590.23	-303.72	9.04	4,143.43	4,077.38	627.96	274.83	9.04	581.57	563.33	101.10	31.888
4,289.00	4,208.82	612.55	-310.21	9.28	4,231.43	4,163.54	644.96	280.50	9.25	593.34	574.66	101.33	31.766
4,300.00	4,219.46	615.22	-310.98	9.30	4,242.32	4,174.19	647.06	281.21	9.28	594.77	576.04	101.63	31.752
4,380.00	4,297.13	633.52	-316.60	9.51	4,321.54	4,251.75	662.37	286.31	9.47	605.30	586.18	103.91	31.658
4,400.00	4,316.63	637.77	-317.98	9.56	4,341.35	4,271.16	666.19	287.59	9.52	607.94	588.72	104.15	31.638
4,473.00	4,388.08	651.93	-322.68	9.74	4,415.24	4,343.50	680.41	292.33	9.70	617.28	597.72	104.94	31.555
4,500.00	4,414.61	656.70	-324.27	9.80	4,444.35	4,372.07	685.72	294.10	9.75	620.51	600.82	104.57	31.527
4,563.00	4,476.63	667.24	-327.62	9.95	4,512.40	4,439.06	697.05	297.88	9.89	627.34	607.38	103.59	31.431
4,600.00	4,513.16	672.88	-329.35	10.03	4,552.44	4,478.61	703.01	299.87	9.97	630.89	610.78	103.70	31.367
4,655.00	4,567.64	680.10	-331.57	10.14	4,612.05	4,537.63	710.91	302.51	10.08	635.53	615.19	103.79	31.245
4,700.00	4,612.32	685.20	-333.13	10.23	4,660.89	4,586.11	716.51	304.37	10.16	638.81	618.30	103.87	31.140
4,747.00	4,659.05	690.02	-334.61	10.33	4,711.95	4,636.90	721.53	306.05	10.25	641.81	621.12	103.99	31.014
4,800.00	4,711.86	694.17	-336.13	10.42	4,769.58	4,694.32	726.16	307.60	10.35	644.76	623.88	112.07	30.880
4,839.00	4,750.80	695.95	-337.19	10.49	4,812.01	4,736.66	728.88	308.50	10.42	646.68	625.67	126.58	30.772
4,900.00	4,811.78	696.85	-338.14	10.57	4,878.45	4,803.02	731.92	309.52	10.52	648.67	627.46	-156.75	30.587
4,931.00	4,842.78	696.50	-338.13	10.62	4,912.24	4,836.79	732.91	309.85	10.57	649.02	627.72	-76.70	30.468
5,000.00	4,911.75	694.54	-337.59	10.70	4,987.21	4,911.75	733.76	310.13	10.67	648.90	627.41	-78.64	30.189
5,023.00	4,934.73	693.63	-337.35	10.73	5,010.19	4,934.73	733.76	310.13	10.70	648.72	627.16	-78.99	30.093
5,100.00	5,011.59	689.06	-336.40	10.81	5,087.05	5,011.59	733.76	310.13	10.81	648.08	626.32	-83.93	29.782

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-3411A (Not Approved) - Plan C - Rev C0 (In Progress)

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
5,115.00	5,026.54	687.87	-336.20	10.83	5,102.00	5,026.54	733.76	310.13	10.84	647.96	626.15	-84.50	29.722
5,121.85	5,033.36	687.22	-336.12	10.84	5,108.81	5,033.36	733.76	310.13	10.85	647.93	626.11	-90.00	29.699
5,146.00	5,057.22	683.54	-336.20	10.86	5,132.67	5,057.22	733.76	310.13	10.88	648.28	626.41	-98.34	29.646
5,176.00	5,086.39	676.58	-336.48	10.87	5,161.85	5,086.39	733.76	310.13	10.93	649.14	627.21	-95.91	29.610
5,200.00	5,109.28	669.39	-336.66	10.87	5,184.74	5,109.28	733.76	310.13	10.96	649.99	628.03	-96.95	29.610
5,206.00	5,114.93	667.36	-336.72	10.87	5,190.38	5,114.93	733.76	310.13	10.97	650.25	628.29	-97.18	29.613
5,238.00	5,144.15	654.39	-337.45	10.86	5,220.87	5,145.41	733.70	310.13	11.01	652.42	630.46	-100.06	29.707
5,268.00	5,170.13	639.46	-338.68	10.85	5,252.80	5,177.30	732.21	310.13	11.05	655.44	633.49	-101.53	29.863
5,299.00	5,195.92	622.32	-340.13	10.82	5,286.86	5,211.15	728.48	310.13	11.08	659.05	637.12	-102.24	30.059
5,300.00	5,196.73	621.75	-340.18	10.82	5,287.98	5,212.26	728.32	310.13	11.08	659.17	637.24	-102.25	30.065
5,329.00	5,220.11	604.64	-341.48	10.79	5,321.30	5,245.06	722.46	310.13	11.10	662.64	640.75	-102.72	30.267
5,359.00	5,243.93	586.43	-342.58	10.75	5,357.62	5,280.30	713.70	310.13	11.12	666.00	644.13	-103.01	30.463
5,389.00	5,267.55	567.96	-343.56	10.72	5,395.92	5,316.70	701.83	310.13	11.12	669.07	647.27	-104.26	30.685
5,400.00	5,276.11	561.07	-344.00	10.71	5,410.38	5,330.20	696.66	310.13	11.12	670.22	648.45	-105.14	30.782
5,420.00	5,291.47	548.31	-345.03	10.69	5,437.20	5,354.84	686.08	310.13	11.12	672.48	650.77	-106.63	30.973
5,451.00	5,314.73	527.89	-346.79	10.66	5,479.97	5,392.92	666.63	310.13	11.10	675.95	654.31	-106.79	31.231
5,482.00	5,337.45	506.86	-348.40	10.62	5,524.11	5,430.41	643.35	310.14	11.08	678.93	657.36	-106.95	31.469
5,500.00	5,350.53	494.53	-349.31	10.60	5,550.29	5,451.67	628.07	310.14	11.06	680.39	658.86	-107.35	31.603
5,513.00	5,359.98	485.63	-349.99	10.59	5,569.38	5,466.67	616.27	310.14	11.04	681.34	659.84	-107.57	31.696
5,543.00	5,381.68	464.95	-351.26	10.56	5,613.75	5,499.79	586.76	310.14	11.00	682.82	661.37	-106.26	31.829
5,573.00	5,402.95	443.81	-352.09	10.52	5,658.16	5,530.31	554.52	310.14	10.96	683.40	662.01	-105.61	31.946
5,600.00	5,421.44	424.15	-352.46	10.49	5,697.86	5,555.19	523.59	310.15	10.92	683.25	661.90	-104.25	31.997
5,605.00	5,424.79	420.43	-352.47	10.49	5,705.17	5,559.50	517.70	310.15	10.91	683.13	661.79	-104.00	32.002
5,637.00	5,445.64	396.16	-352.23	10.45	5,751.51	5,584.91	478.97	310.15	10.86	681.91	660.61	-102.88	32.017
5,669.00	5,465.87	371.38	-351.62	10.42	5,796.72	5,606.30	439.14	310.15	10.81	679.89	658.63	-101.88	31.974
5,700.00	5,484.83	346.86	-351.02	10.39	5,839.15	5,623.15	400.22	310.15	10.77	677.59	656.37	-101.53	31.924
5,732.00	5,503.39	320.80	-350.50	10.36	5,881.47	5,636.75	360.15	310.16	10.73	675.13	653.92	-100.68	31.835
5,764.00	5,521.35	294.32	-349.90	10.33	5,921.93	5,646.67	320.94	310.16	10.70	672.38	651.17	-99.44	31.700
5,795.00	5,538.21	268.31	-349.46	10.31	5,959.19	5,653.09	284.25	310.16	10.68	669.74	648.53	-98.84	31.572
5,800.00	5,540.84	264.06	-349.43	10.30	5,965.04	5,653.86	278.45	310.16	10.68	669.36	648.14	-98.73	31.550
5,827.00	5,554.39	240.71	-349.35	10.29	5,996.04	5,656.84	247.60	310.17	10.66	667.46	646.24	-98.07	31.444
5,858.00	5,568.43	213.08	-349.71	10.27	6,030.49	5,658.00	213.17	310.17	14.17	665.93	644.67	-97.60	31.325
5,890.00	5,581.05	183.69	-350.47	10.25	6,059.93	5,658.00	183.74	310.17	14.22	665.11	643.84	-96.75	31.278
5,900.00	5,584.66	174.37	-350.72	10.25	6,069.25	5,658.00	174.41	310.17	14.23	664.95	643.68	-96.47	31.261
5,921.00	5,592.06	154.72	-351.27	10.23	6,088.89	5,658.00	154.77	310.17	14.24	664.72	643.43	-95.89	31.228
5,953.00	5,602.81	124.59	-352.04	10.21	6,119.02	5,658.00	124.64	310.17	14.26	664.51	643.18	-94.94	31.149
5,984.00	5,612.02	95.00	-352.61	10.19	6,148.61	5,658.00	95.05	310.18	14.27	664.38	642.98	-94.05	31.054
5,995.00	5,614.95	84.40	-352.78	10.18	6,159.21	5,658.00	84.45	310.18	14.28	664.35	642.94	-93.85	31.022
6,000.00	5,616.27	79.58	-352.87	10.18	6,164.04	5,658.00	79.63	310.18	14.28	664.36	642.93	-93.76	31.008
6,016.00	5,620.39	64.12	-353.19	10.17	6,179.49	5,658.00	64.17	310.18	14.29	664.43	642.98	-93.47	30.966
6,047.00	5,627.67	33.99	-353.66	10.20	6,209.62	5,658.00	34.04	310.18	14.31	664.54	643.00	-92.66	30.856
6,079.00	5,633.60	2.55	-353.73	10.28	6,241.06	5,658.00	2.60	310.18	14.32	664.36	642.72	-92.04	30.694
6,100.00	5,636.74	-18.21	-353.61	10.33	6,261.82	5,658.00	-18.16	310.18	14.33	664.14	642.42	-91.75	30.578
6,112.00	5,638.42	-30.09	-353.51	10.37	6,273.70	5,658.00	-30.04	310.19	14.34	663.98	642.22	-91.60	30.510
6,200.00	5,647.45	-117.61	-352.98	13.37	6,361.22	5,658.00	-117.56	310.19	14.39	663.26	641.16	-90.90	30.021
6,221.00	5,648.72	-138.57	-352.96	14.15	6,382.18	5,658.00	-138.52	310.19	14.40	663.22	641.04	-90.80	29.904
6,300.00	5,653.50	-217.42	-352.57	14.20	6,461.04	5,658.00	-217.37	310.20	14.45	662.79	640.28	-90.35	29.446
6,315.00	5,654.56	-232.38	-352.42	14.21	6,476.00	5,658.00	-232.33	310.20	14.46	662.63	640.05	-90.25	29.354
6,400.00	5,659.08	-317.25	-351.76	14.27	6,560.87	5,658.00	-317.21	310.21	14.51	661.97	638.91	-89.90	28.707
6,410.00	5,659.40	-327.25	-351.72	14.27	6,570.86	5,658.00	-327.20	310.21	14.52	661.93	638.81	-89.87	28.631
6,424.77	5,659.79	-342.01	-351.70	14.28	6,585.63	5,658.00	-341.96	310.21	14.53	661.91	638.69	-89.85	28.506

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-3411A (Not Approved) - Plan C - Rev C0 (In Progress)

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
6,500.00	5,660.22	-417.24	-352.30	14.34	6,660.85	5,658.00	-417.19	310.21	14.57	662.51	638.74	-89.80	27.862
6,504.00	5,660.17	-421.24	-352.36	14.34	6,664.85	5,658.00	-421.19	310.21	14.58	662.58	638.77	-89.80	27.829
6,599.00	5,659.29	-516.22	-353.62	14.41	6,759.84	5,658.00	-516.17	310.22	14.64	663.84	639.25	-89.89	26.993
6,600.00	5,659.29	-517.22	-353.63	14.41	6,760.84	5,658.00	-517.17	310.22	14.64	663.85	639.25	-89.89	26.983
6,693.00	5,659.15	-610.17	-356.52	14.48	6,853.78	5,658.00	-610.12	310.23	14.70	666.75	641.24	-89.91	26.145
6,700.00	5,659.17	-617.16	-356.89	14.49	6,860.77	5,658.00	-617.11	310.23	14.71	667.12	641.55	-89.91	26.085
6,788.00	5,659.67	-704.93	-363.18	14.56	6,948.54	5,658.00	-704.88	310.23	14.77	673.41	646.91	-89.90	25.404
6,800.00	5,659.76	-716.89	-364.20	14.58	6,960.50	5,658.00	-716.84	310.23	14.78	674.44	647.81	-89.88	25.328
6,883.00	5,659.59	-799.71	-369.49	14.66	7,043.32	5,658.00	-799.66	310.24	14.86	679.73	652.24	-89.84	24.724
6,900.00	5,659.40	-816.70	-370.16	14.68	7,060.31	5,658.00	-816.65	310.24	14.89	680.41	652.73	-89.86	24.582
6,977.00	5,658.30	-893.68	-371.02	14.77	7,137.29	5,658.00	-893.63	310.25	15.10	681.26	652.72	-89.99	23.865
7,000.00	5,657.93	-916.67	-370.73	14.80	7,160.29	5,658.00	-916.62	310.25	15.22	680.98	652.15	-90.02	23.619
7,072.00	5,656.94	-988.66	-369.82	14.90	7,232.27	5,658.00	-988.61	310.25	15.67	680.08	650.34	-90.10	22.870
7,100.00	5,656.59	-1,016.66	-369.60	14.94	7,260.27	5,658.00	-1,016.61	310.26	15.87	679.85	649.74	-90.12	22.579
7,108.90	5,656.47	-1,025.56	-369.58	14.96	7,269.17	5,658.00	-1,025.51	310.26	15.93	679.84	649.61	-90.13	22.489
7,166.00	5,655.60	-1,082.65	-370.14	15.07	7,326.26	5,658.00	-1,082.60	310.26	16.34	680.41	649.41	-90.18	21.949
7,200.00	5,655.12	-1,116.64	-370.53	15.15	7,360.25	5,658.00	-1,116.59	310.26	16.59	680.80	649.35	-90.24	21.645
7,261.00	5,654.73	-1,177.63	-369.85	15.33	7,421.24	5,658.00	-1,177.58	310.27	17.05	680.13	647.86	-90.28	21.075
7,296.73	5,654.64	-1,213.36	-369.39	15.45	7,456.97	5,658.00	-1,213.31	310.27	17.33	679.67	646.87	-90.28	20.721
7,300.00	5,654.63	-1,216.63	-369.39	15.47	7,460.24	5,658.00	-1,216.58	310.27	17.35	679.67	646.82	-90.28	20.691
7,355.00	5,654.34	-1,271.61	-370.61	15.70	7,515.22	5,658.00	-1,271.56	310.27	17.78	680.89	647.23	-90.29	20.228
7,400.00	5,654.03	-1,316.56	-372.60	15.92	7,560.18	5,658.00	-1,316.52	310.28	18.13	682.89	648.57	-90.31	19.898
7,450.00	5,653.67	-1,366.50	-375.06	16.19	7,610.12	5,658.00	-1,366.45	310.28	18.53	685.35	650.30	-90.34	19.552
7,500.00	5,653.42	-1,416.47	-376.66	16.49	7,660.09	5,658.00	-1,416.42	310.29	18.94	686.96	651.18	-90.38	19.200
7,545.00	5,653.41	-1,461.47	-376.41	16.76	7,705.08	5,658.00	-1,461.42	310.29	19.30	686.72	650.30	-90.38	18.854
7,600.00	5,653.58	-1,516.46	-375.76	17.12	7,760.08	5,658.00	-1,516.41	310.29	19.76	686.07	648.78	-90.37	18.400
7,600.96	5,653.58	-1,517.43	-375.76	17.12	7,761.04	5,658.00	-1,517.38	310.29	19.76	686.07	648.77	-90.37	18.392
7,639.00	5,653.80	-1,555.46	-376.06	17.37	7,799.07	5,658.00	-1,555.41	310.30	20.08	686.37	648.47	-90.36	18.112
7,700.00	5,654.16	-1,616.43	-378.07	17.79	7,860.04	5,658.00	-1,616.38	310.30	20.59	688.38	649.51	-90.34	17.712
7,734.00	5,654.33	-1,650.36	-380.10	18.03	7,893.98	5,658.00	-1,650.31	310.30	20.88	690.41	651.01	-90.32	17.525
7,800.00	5,654.58	-1,716.12	-385.69	18.51	7,959.73	5,658.00	-1,716.07	310.31	21.43	696.01	655.58	-90.30	17.215
7,828.00	5,654.67	-1,743.96	-388.68	18.71	7,987.57	5,658.00	-1,743.91	310.31	21.67	699.00	658.14	-90.29	17.106
7,900.00	5,655.24	-1,815.84	-391.45	19.23	8,059.45	5,658.00	-1,815.79	310.31	22.29	701.77	659.80	-90.20	16.718
7,923.00	5,655.59	-1,838.79	-390.06	19.40	8,082.40	5,658.00	-1,838.74	310.32	22.49	700.38	658.14	-90.12	16.579
8,000.00	5,656.61	-1,915.59	-384.67	19.98	8,159.21	5,658.00	-1,915.54	310.32	23.16	694.99	651.42	-90.08	15.950
8,018.00	5,656.78	-1,933.57	-383.73	20.11	8,177.18	5,658.00	-1,933.52	310.32	23.31	694.05	650.17	-90.08	15.817
8,100.00	5,657.14	-2,015.50	-380.45	20.76	8,259.11	5,658.00	-2,015.45	310.33	24.03	690.78	645.49	-90.07	15.250
8,113.00	5,657.14	-2,028.49	-380.07	20.86	8,272.11	5,658.00	-2,028.44	310.33	24.15	690.40	644.88	-90.07	15.167
8,200.00	5,654.81	-2,115.43	-378.10	21.56	8,359.04	5,658.00	-2,115.38	310.34	24.92	688.44	641.43	-90.32	14.644
8,205.00	5,654.54	-2,120.42	-378.01	21.60	8,364.03	5,658.00	-2,120.37	310.34	24.96	688.36	641.26	-90.34	14.616
8,244.17	5,653.36	-2,159.56	-377.00	21.82	8,403.17	5,658.00	-2,159.51	310.34	25.31	687.35	639.73	-90.40	14.433
8,300.00	5,653.11	-2,215.35	-375.05	21.97	8,458.96	5,658.00	-2,215.30	310.34	25.81	685.41	637.13	-90.42	14.198
8,389.17	5,652.72	-2,304.47	-371.94	22.24	8,548.08	5,658.00	-2,304.42	310.35	26.61	682.31	632.96	-90.45	13.828
8,400.00	5,652.68	-2,315.29	-371.58	22.27	8,558.90	5,658.00	-2,315.24	310.35	26.70	681.95	632.47	-90.45	13.782
8,439.76	5,652.67	-2,355.04	-370.59	22.40	8,598.65	5,658.00	-2,354.99	310.35	27.06	680.96	630.97	-90.45	13.623
8,500.00	5,652.79	-2,415.27	-369.47	22.60	8,658.88	5,658.00	-2,415.22	310.36	27.61	679.85	629.11	-90.44	13.399
8,600.00	5,652.99	-2,515.25	-367.63	22.97	8,758.86	5,658.00	-2,515.20	310.36	28.52	678.01	625.99	-90.42	13.033
8,700.00	5,653.20	-2,615.23	-365.79	23.38	8,858.85	5,658.00	-2,615.18	310.37	29.43	676.17	622.83	-90.41	12.676
8,800.00	5,653.40	-2,715.22	-363.94	23.82	8,958.83	5,658.00	-2,715.17	310.38	30.35	674.34	619.63	-90.39	12.327
8,900.00	5,653.60	-2,815.20	-362.10	24.29	9,058.81	5,658.00	-2,815.15	310.39	31.27	672.50	616.39	-90.37	11.987
9,000.00	5,653.81	-2,915.18	-360.25	24.79	9,158.80	5,658.00	-2,915.13	310.39	32.20	670.66	613.13	-90.36	11.657
9,100.00	5,654.01	-3,015.16	-358.41	25.32	9,258.78	5,658.00	-3,015.12	310.40	33.12	668.82	609.82	-90.34	11.337

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-3411A (Not Approved) - Plan C - Rev C0 (In Progress)

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
9,200.00	5,654.22	-3,115.15	-356.56	25.88	9,358.76	5,658.00	-3,115.10	310.41	34.06	666.98	606.49	-90.32	11.027
9,300.00	5,654.42	-3,215.13	-354.72	26.46	9,458.74	5,658.00	-3,215.08	310.42	34.99	665.14	603.14	-90.31	10.727
9,400.00	5,654.62	-3,315.11	-352.87	27.06	9,558.73	5,658.00	-3,315.06	310.42	35.93	663.30	599.75	-90.29	10.437
9,500.00	5,654.83	-3,415.10	-351.03	27.69	9,658.71	5,658.00	-3,415.05	310.43	36.87	661.46	596.34	-90.27	10.158
9,584.92	5,655.00	-3,500.00	-349.46	28.23	9,743.61	5,658.00	-3,499.95	310.44	37.67	659.90	593.43	-90.26	9.928
9,600.00	5,655.06	-3,515.08	-349.21	28.32	9,758.69	5,658.00	-3,515.03	310.44	37.81	659.66	592.95	-90.25	9.888
9,652.32	5,655.63	-3,567.39	-348.84	28.62	9,811.01	5,658.00	-3,567.35	310.44	38.30	659.28	591.77	-90.21	9.765
9,653.95	5,655.66	-3,569.03	-348.84	28.63	9,812.64	5,658.00	-3,568.98	310.44	38.32	659.28	591.74	-90.20	9.761
9,700.00	5,656.44	-3,615.07	-348.86	28.91	9,858.68	5,658.00	-3,615.02	310.44	38.75	659.30	591.04	-90.14	9.658
9,800.00	5,658.14	-3,715.05	-348.90	29.59	9,958.67	5,658.00	-3,715.00	310.45	39.70	659.35	589.46	-89.99	9.434
9,900.00	5,659.84	-3,815.04	-348.95	30.28	10,058.65	5,658.00	-3,814.99	310.46	40.64	659.41	587.87	-89.84	9.218
10,000.00	5,661.54	-3,915.02	-348.99	30.99	10,158.64	5,658.00	-3,914.98	310.47	41.59	659.46	586.27	-89.69	9.010
10,100.00	5,663.24	-4,015.01	-349.03	31.72	10,258.62	5,658.00	-4,014.96	310.47	42.54	659.53	584.66	-89.54	8.809
10,200.00	5,664.95	-4,114.99	-349.08	32.46	10,358.61	5,658.00	-4,114.95	310.48	43.49	659.59	583.03	-89.40	8.616
10,300.00	5,666.65	-4,214.98	-349.12	33.21	10,458.59	5,658.00	-4,214.93	310.49	44.45	659.66	581.40	-89.25	8.429
10,400.00	5,668.35	-4,314.97	-349.16	33.97	10,558.58	5,658.00	-4,314.92	310.49	45.40	659.74	579.76	-89.10	8.249
10,500.00	5,670.05	-4,414.95	-349.21	34.74	10,658.57	5,658.00	-4,414.90	310.50	46.36	659.82	578.11	-88.95	8.076
10,600.00	5,671.75	-4,514.94	-349.25	35.53	10,758.55	5,658.00	-4,514.89	310.51	47.31	659.90	576.46	-88.81	7.908
10,700.00	5,673.45	-4,614.92	-349.29	36.32	10,858.54	5,658.00	-4,614.87	310.52	48.27	659.99	574.80	-88.66	7.747
10,800.00	5,675.15	-4,714.91	-349.34	37.12	10,958.52	5,658.00	-4,714.86	310.52	49.23	660.08	573.13	-88.51	7.591
10,900.00	5,676.85	-4,814.89	-349.38	37.93	11,058.51	5,658.00	-4,814.85	310.53	50.19	660.18	571.46	-88.36	7.441
11,000.00	5,678.55	-4,914.88	-349.42	38.75	11,158.49	5,658.00	-4,914.83	310.54	51.15	660.28	569.79	-88.22	7.297
11,085.13	5,680.00	-5,000.00	-349.46	39.46	11,243.61	5,658.00	-4,999.95	310.54	51.96	660.37	568.36	-88.09	7.177
11,100.00	5,680.21	-5,014.86	-349.47	39.58	11,258.48	5,658.00	-5,014.82	310.55	52.11	660.38	568.11	-88.07	7.157
11,120.18	5,680.38	-5,035.04	-349.47	39.75	11,278.65	5,658.00	-5,034.99	310.55	52.30	660.39	567.76	-88.06	7.129
11,200.00	5,680.76	-5,114.86	-349.47	40.41	11,358.48	5,658.00	-5,114.82	310.55	53.07	660.41	566.35	-88.02	7.021
11,300.00	5,681.24	-5,214.86	-349.47	41.25	11,458.48	5,658.00	-5,214.81	310.56	54.03	660.43	564.57	-87.98	6.889
11,400.00	5,681.72	-5,314.86	-349.47	42.10	11,558.48	5,658.00	-5,314.81	310.57	54.99	660.46	562.79	-87.94	6.762
11,500.00	5,682.20	-5,414.86	-349.46	42.95	11,658.47	5,658.00	-5,414.81	310.57	55.96	660.48	561.00	-87.90	6.639
11,600.00	5,682.68	-5,514.86	-349.46	43.81	11,758.47	5,658.00	-5,514.81	310.58	56.92	660.51	559.20	-87.86	6.520
11,700.00	5,683.16	-5,614.86	-349.46	44.67	11,858.47	5,658.00	-5,614.81	310.59	57.89	660.53	557.40	-87.82	6.405
11,800.00	5,683.64	-5,714.86	-349.46	45.54	11,958.47	5,658.00	-5,714.81	310.60	58.85	660.56	555.59	-87.78	6.293
11,900.00	5,684.11	-5,814.85	-349.46	46.41	12,058.47	5,658.00	-5,814.81	310.60	59.82	660.58	553.78	-87.73	6.185
12,000.00	5,684.59	-5,914.85	-349.46	47.29	12,158.47	5,658.00	-5,914.81	310.61	60.79	660.61	551.97	-87.69	6.081
12,085.15	5,685.00	-6,000.00	-349.46	48.03	12,243.61	5,658.00	-5,999.95	310.62	61.61	660.63	550.42	-87.66	5.994
12,100.00	5,685.03	-6,014.85	-349.46	48.17	12,258.47	5,658.00	-6,014.81	310.62	61.75	660.63	550.15	-87.65	5.980
12,198.86	5,683.29	-6,113.69	-349.46	49.04	12,357.30	5,658.00	-6,113.64	310.62	62.71	660.57	548.25	-87.81	5.881
12,200.00	5,683.25	-6,114.83	-349.46	49.05	12,358.45	5,658.00	-6,114.78	310.62	62.72	660.57	548.22	-87.81	5.880
12,300.00	5,679.76	-6,214.77	-349.46	49.94	12,458.39	5,658.00	-6,214.72	310.63	63.69	660.45	546.24	-88.11	5.783
12,400.00	5,676.27	-6,314.71	-349.46	50.83	12,558.32	5,658.00	-6,314.66	310.64	64.66	660.35	544.26	-88.42	5.688
12,500.00	5,672.78	-6,414.65	-349.46	51.72	12,658.26	5,658.00	-6,414.60	310.65	65.62	660.27	542.31	-88.72	5.597
12,600.00	5,669.29	-6,514.59	-349.46	52.62	12,758.20	5,658.00	-6,514.54	310.65	66.59	660.21	540.37	-89.02	5.509
12,700.00	5,665.80	-6,614.53	-349.46	53.52	12,858.14	5,658.00	-6,614.48	310.66	67.56	660.17	538.45	-89.32	5.424
12,800.00	5,662.31	-6,714.47	-349.46	54.42	12,958.08	5,658.00	-6,714.42	310.67	68.53	660.14	536.55	-89.63	5.341
12,884.08	5,659.37	-6,798.50	-349.46	55.18	13,042.11	5,658.00	-6,798.45	310.67	69.35	660.14	534.97	-89.88	5.274
12,900.00	5,658.82	-6,814.41	-349.46	55.33	13,058.02	5,658.00	-6,814.36	310.68	69.50	660.14	534.67	-89.93	5.261
13,000.00	5,655.33	-6,914.34	-349.46	56.23	13,157.96	5,658.00	-6,914.30	310.68	70.47	660.15	532.81	-90.23	5.184
13,100.00	5,651.84	-7,014.28	-349.46	57.14	13,257.90	5,658.00	-7,014.24	310.69	71.44	660.18	530.96	-90.53	5.109
13,117.21	5,651.24	-7,031.48	-349.46	57.30	13,273.98	5,658.00	-7,030.32	310.69	71.60	660.19	530.66	-90.58	5.097

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-2210B - Plan D_ST-1 - Actual Field Surveys_ST-1

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft . Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
100.00	100.00	0.04	-0.03	3.29	96.89	96.89	-75.12	0.03	3.29	75.16	67.62	-142.89	9.960
177.00	177.00	0.14	-0.10	3.29	173.79	173.79	-75.28	0.09	3.29	75.42	67.87	-142.98	9.986
200.00	200.00	0.19	-0.13	3.30	196.81	196.81	-75.35	0.10	3.30	75.54	67.98	-165.33	9.994
268.00	268.00	0.65	-0.17	3.31	264.87	264.87	-75.49	0.07	3.31	76.14	68.56	-178.08	10.040
300.00	300.00	0.97	-0.19	3.32	296.84	296.84	-75.55	0.01	3.32	76.52	68.92	-175.82	10.067
359.00	358.99	1.58	-0.26	3.34	355.78	355.78	-75.69	-0.22	3.34	77.27	69.63	-171.99	10.116
400.00	399.99	2.02	-0.35	3.36	396.82	396.81	-75.79	-0.41	3.35	77.81	70.14	-164.61	10.145
451.00	450.99	2.56	-0.54	3.38	447.86	447.86	-75.89	-0.57	3.37	78.45	70.74	-156.10	10.168
500.00	499.98	3.08	-0.76	3.41	496.65	496.65	-76.03	-0.68	3.40	79.12	71.35	-158.21	10.190
544.00	543.98	3.57	-0.95	3.43	540.44	540.43	-76.27	-0.79	3.42	79.85	72.04	-160.01	10.220
600.00	599.98	4.08	-1.19	3.46	596.66	596.65	-76.59	-0.93	3.45	80.68	72.80	-147.32	10.238
635.00	634.98	4.28	-1.35	3.49	631.82	631.81	-76.70	-1.03	3.48	80.98	73.05	-132.02	10.218
700.00	699.98	4.48	-1.60	3.53	696.70	696.69	-76.87	-1.13	3.52	81.35	73.34	-122.92	10.151
727.00	726.98	4.52	-1.68	3.55	723.64	723.63	-76.97	-1.13	3.54	81.50	73.44	-113.81	10.120
800.00	799.98	4.49	-1.93	3.61	796.58	796.57	-77.31	-1.07	3.60	81.80	73.63	-66.68	10.010
819.00	818.98	4.44	-2.02	3.62	815.56	815.55	-77.41	-1.05	3.62	81.85	73.65	-61.77	9.977
900.00	899.98	4.28	-2.30	3.70	897.04	897.03	-77.60	-1.68	3.69	81.89	73.54	-62.06	9.804
911.00	910.97	4.27	-2.32	3.71	908.11	908.10	-77.59	-1.88	3.70	81.87	73.49	-62.18	9.777
922.12	922.10	4.28	-2.34	3.72	919.23	919.22	-77.58	-2.12	3.72	81.85	73.46	-121.59	9.750
993.00	992.97	4.89	-2.69	3.79	989.88	989.81	-77.55	-4.74	3.79	82.46	73.93	-153.32	9.659
1,000.00	999.97	5.00	-2.74	3.80	996.85	996.77	-77.56	-5.10	3.80	82.59	74.04	-155.38	9.658
1,087.00	1,086.93	7.57	-3.42	3.89	1,084.20	1,083.88	-77.26	-11.56	3.89	85.22	76.47	-163.31	9.747
1,100.00	1,099.91	8.13	-3.53	3.91	1,097.19	1,096.81	-77.14	-12.82	3.91	85.78	77.01	-164.34	9.778
1,176.00	1,175.78	12.54	-3.97	4.00	1,172.50	1,171.69	-76.45	-20.77	4.00	90.57	81.62	-166.03	10.121
1,200.00	1,199.72	14.29	-4.09	4.03	1,196.24	1,195.28	-76.24	-23.45	4.03	92.59	83.58	-162.98	10.279
1,268.00	1,267.49	19.86	-4.76	4.12	1,263.48	1,262.04	-75.63	-31.50	4.12	99.19	90.01	-155.65	10.804
1,300.00	1,299.35	22.82	-5.26	4.16	1,295.13	1,293.44	-75.33	-35.47	4.16	102.73	93.47	-152.27	11.089
1,360.00	1,359.01	29.01	-6.57	4.25	1,354.57	1,352.44	-74.87	-42.67	4.24	110.03	100.60	-147.34	11.676
1,400.00	1,398.73	33.60	-7.76	4.31	1,394.06	1,391.65	-74.64	-47.24	4.30	115.29	105.76	-143.79	12.095
1,451.00	1,449.28	40.00	-9.75	4.38	1,444.24	1,441.53	-74.56	-52.79	4.37	122.48	112.80	-140.42	12.663
1,500.00	1,497.77	46.65	-12.21	4.46	1,492.47	1,489.50	-74.75	-57.73	4.44	129.76	119.95	-136.86	13.225
1,542.00	1,539.25	52.69	-14.82	4.52	1,533.76	1,530.64	-75.24	-61.24	4.50	136.21	126.47	-134.81	13.991
1,600.00	1,596.52	60.92	-18.80	4.57	1,591.02	1,587.75	-76.29	-65.30	4.55	144.99	135.15	-133.61	14.725
1,636.00	1,632.11	65.72	-21.34	4.60	1,626.72	1,623.35	-76.91	-67.87	4.58	150.14	140.34	-132.61	15.322
1,700.00	1,695.37	74.10	-26.29	4.62	1,689.53	1,685.98	-78.01	-72.48	4.60	159.10	149.27	-130.21	16.198
1,728.00	1,723.02	77.79	-28.69	4.62	1,716.93	1,713.30	-78.58	-74.46	4.60	163.08	153.25	-129.32	16.590
1,800.00	1,793.94	87.89	-35.93	4.65	1,788.33	1,784.52	-80.20	-79.19	4.61	173.69	163.83	-127.44	17.624
1,819.00	1,812.59	90.74	-38.13	4.65	1,807.16	1,803.32	-80.64	-80.26	4.62	176.59	166.72	-127.24	17.907
1,900.00	1,891.68	105.13	-48.01	4.69	1,884.95	1,880.98	-82.70	-84.27	4.64	191.45	181.59	-136.35	19.399
1,911.00	1,902.35	107.40	-49.38	4.70	1,895.37	1,891.38	-83.03	-84.80	4.64	193.86	184.00	-137.40	19.645
2,000.00	1,988.11	127.83	-61.59	4.77	1,979.01	1,974.86	-86.15	-88.87	4.67	215.95	206.05	-140.08	21.810
2,002.00	1,990.02	128.33	-61.89	4.77	1,980.87	1,976.72	-86.22	-88.96	4.67	216.50	206.60	-140.14	21.864
2,094.00	2,078.12	150.97	-75.65	4.86	2,073.11	2,068.78	-89.51	-93.57	4.72	241.24	231.24	-142.62	24.129
2,100.00	2,083.87	152.42	-76.55	4.87	2,079.33	2,074.99	-89.65	-93.92	4.72	242.76	232.76	-142.74	24.263
2,185.00	2,165.55	172.32	-89.10	4.96	2,168.94	2,164.44	-90.13	-99.15	4.77	262.65	252.53	-144.09	25.961
2,200.00	2,180.01	175.69	-91.28	4.98	2,184.93	2,180.41	-89.94	-100.05	4.77	265.79	255.65	-144.18	26.213
2,277.00	2,254.41	192.13	-102.30	5.08	2,260.15	2,255.52	-88.83	-103.82	4.82	281.00	270.74	-144.27	27.379
2,300.00	2,276.71	196.79	-105.54	5.11	2,282.69	2,278.04	-88.50	-104.79	4.84	285.31	275.01	-144.55	27.696
2,368.00	2,342.75	210.01	-114.87	5.20	2,349.82	2,345.10	-87.42	-107.70	4.88	297.57	287.15	-145.19	28.563
2,400.00	2,373.80	216.29	-119.37	5.25	2,380.98	2,376.23	-86.89	-109.10	4.91	303.40	292.95	-145.58	29.022
2,459.00	2,430.64	229.13	-128.60	5.34	2,436.85	2,432.02	-86.13	-112.01	4.95	315.73	305.21	-146.30	30.017
2,500.00	2,469.97	238.48	-135.45	5.41	2,475.84	2,470.93	-85.78	-114.37	4.98	324.96	314.36	-146.03	30.651

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-2210B - Plan D_ST-1 - Actual Field Surveys_ST-1

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
2,551.00	2,518.97	249.71	-144.02	5.49	2,524.91	2,519.90	-85.41	-117.46	5.02	336.20	325.49	-145.59	31.394
2,600.00	2,566.13	260.20	-152.23	5.58	2,572.44	2,567.33	-85.12	-120.51	5.07	346.80	335.99	-146.29	32.073
2,642.00	2,606.60	269.03	-159.16	5.66	2,613.57	2,608.37	-84.85	-123.15	5.10	355.74	344.84	-146.84	32.627
2,700.00	2,662.37	281.98	-168.45	5.77	2,669.88	2,664.57	-84.44	-126.73	5.16	368.82	357.83	-152.23	33.565
2,733.00	2,693.94	290.09	-173.55	5.84	2,701.53	2,696.16	-84.23	-128.70	5.19	377.03	366.00	-154.96	34.164
2,800.00	2,758.00	306.84	-183.78	5.98	2,765.79	2,760.30	-83.85	-132.65	5.26	394.06	382.86	-154.73	35.191
2,825.00	2,781.94	312.96	-187.61	6.03	2,789.84	2,784.30	-83.72	-134.14	5.28	400.30	389.04	-154.62	35.553
2,900.00	2,854.15	330.61	-197.49	6.19	2,861.94	2,856.26	-83.40	-138.66	5.36	418.21	406.75	-161.73	36.498
2,917.00	2,870.61	334.46	-199.29	6.22	2,878.27	2,872.56	-83.35	-139.69	5.38	422.07	410.56	-163.51	36.687
3,000.00	2,951.33	352.00	-207.39	6.39	2,958.48	2,952.60	-83.21	-144.68	5.47	439.73	427.98	-162.37	37.451
3,008.00	2,959.14	353.58	-208.14	6.41	2,966.25	2,960.36	-83.20	-145.14	5.48	441.32	429.56	-162.25	37.514
3,100.00	3,049.28	369.97	-216.48	6.59	3,054.17	3,048.14	-83.25	-150.21	5.59	458.04	446.01	-159.42	38.055
3,192.00	3,139.53	386.26	-223.69	6.76	3,143.10	3,136.88	-84.01	-155.92	5.70	475.12	462.88	-168.27	38.794
3,200.00	3,147.36	387.81	-224.25	6.78	3,151.07	3,144.84	-84.08	-156.46	5.71	476.73	464.46	-168.20	38.855
3,283.00	3,228.60	403.78	-230.04	6.94	3,232.74	3,226.29	-84.75	-162.27	5.82	493.22	480.71	-167.54	39.451
3,300.00	3,245.24	407.04	-231.22	6.98	3,249.24	3,242.75	-84.90	-163.48	5.85	496.58	484.03	-167.60	39.566
3,375.00	3,318.68	421.38	-236.36	7.13	3,322.15	3,315.45	-85.62	-168.93	5.95	511.46	498.69	-167.88	40.057
3,400.00	3,343.16	426.15	-238.07	7.18	3,346.47	3,339.70	-85.88	-170.80	5.98	516.43	503.59	-167.30	40.212
3,467.00	3,408.76	438.91	-242.86	7.32	3,411.37	3,404.39	-86.65	-175.91	6.08	529.81	516.77	-165.75	40.618
3,500.00	3,441.06	445.20	-245.33	7.39	3,443.22	3,436.13	-87.07	-178.46	6.13	536.46	523.32	-165.18	40.815
3,558.00	3,497.80	456.33	-249.84	7.52	3,500.51	3,493.24	-87.85	-182.97	6.21	548.27	534.95	-164.21	41.161
3,600.00	3,538.88	464.38	-253.24	7.61	3,542.77	3,535.39	-88.29	-185.94	6.27	556.75	543.30	-163.29	41.383
3,649.00	3,586.82	473.66	-257.33	7.72	3,590.94	3,583.47	-88.69	-189.06	6.35	566.48	552.87	-162.26	41.627
3,700.00	3,636.73	483.21	-261.68	7.83	3,640.54	3,632.96	-89.14	-192.33	6.42	576.53	562.76	-161.86	41.864
3,741.00	3,676.87	490.81	-265.20	7.92	3,678.84	3,671.16	-89.55	-194.89	6.48	584.61	570.70	-161.54	42.047
3,800.00	3,734.66	501.48	-270.45	8.06	3,733.27	3,725.47	-90.39	-198.45	6.57	596.27	582.17	-159.13	42.287
3,832.00	3,766.02	507.10	-273.43	8.13	3,766.61	3,758.74	-90.97	-200.61	6.62	602.50	588.29	-157.81	42.392
3,900.00	3,832.67	518.90	-279.93	8.28	3,840.16	3,832.12	-91.67	-205.54	6.73	615.09	600.65	-157.68	42.583
3,924.00	3,856.19	523.08	-282.23	8.34	3,865.06	3,856.96	-91.75	-207.19	6.77	619.40	604.88	-157.64	42.646
4,000.00	3,930.33	538.42	-288.78	8.52	3,943.26	3,935.01	-91.59	-211.95	6.89	634.72	620.01	-168.32	43.136
4,015.00	3,944.87	541.94	-289.89	8.55	3,958.39	3,950.12	-91.51	-212.83	6.92	638.17	623.42	-169.98	43.266
4,100.00	4,026.80	563.67	-296.14	8.77	4,041.01	4,032.59	-90.89	-217.70	7.05	659.30	644.31	-171.01	43.996
4,106.00	4,032.55	565.30	-296.59	8.78	4,046.42	4,038.00	-90.86	-218.02	7.06	660.90	645.90	-171.07	44.056
4,197.00	4,120.02	589.46	-303.49	9.03	4,129.77	4,121.20	-90.72	-223.03	7.20	684.94	669.61	-169.92	44.685
4,200.00	4,122.91	590.23	-303.72	9.04	4,132.63	4,124.05	-90.72	-223.20	7.20	685.71	670.38	-169.93	44.704
4,289.00	4,208.82	612.55	-310.21	9.28	4,218.27	4,209.55	-90.84	-228.02	7.34	708.18	692.51	-170.40	45.205
4,300.00	4,219.46	615.22	-310.98	9.30	4,229.15	4,220.41	-90.85	-228.64	7.36	710.86	695.15	-170.17	45.251
4,380.00	4,297.13	633.52	-316.60	9.51	4,307.53	4,298.66	-90.88	-233.29	7.49	729.19	713.16	-168.29	45.513
4,400.00	4,316.63	637.77	-317.98	9.56	4,326.38	4,317.48	-90.90	-234.37	7.53	733.46	717.36	-168.17	45.558
4,473.00	4,388.08	651.93	-322.68	9.74	4,395.75	4,386.75	-91.06	-237.99	7.64	747.80	731.42	-167.66	45.649
4,500.00	4,414.61	656.70	-324.27	9.80	4,421.97	4,412.94	-91.16	-239.31	7.69	752.67	736.19	-168.09	45.669
4,563.00	4,476.63	667.24	-327.62	9.95	4,484.21	4,475.09	-91.45	-242.58	7.80	763.44	746.73	-169.17	45.674
4,600.00	4,513.16	672.88	-329.35	10.03	4,523.74	4,514.55	-91.55	-244.88	7.87	769.10	752.23	-169.14	45.607
4,655.00	4,567.64	680.10	-331.57	10.14	4,581.67	4,572.36	-91.48	-248.62	7.97	776.07	758.99	-169.07	45.436
4,700.00	4,612.32	685.20	-333.13	10.23	4,627.50	4,618.11	-91.30	-251.48	8.05	780.83	763.58	-168.92	45.272
4,747.00	4,659.05	690.02	-334.61	10.33	4,672.80	4,663.33	-91.06	-254.11	8.13	785.25	767.83	-168.77	45.084
4,800.00	4,711.86	694.17	-336.13	10.42	4,719.92	4,710.36	-91.08	-256.95	8.21	789.24	771.63	-160.67	44.834
4,839.00	4,750.80	695.95	-337.19	10.49	4,754.97	4,745.34	-91.33	-259.18	8.28	791.14	773.41	-146.07	44.608
4,900.00	4,811.78	696.85	-338.14	10.57	4,811.73	4,801.95	-92.06	-263.22	8.38	792.49	774.55	-69.08	44.180
4,931.00	4,842.78	696.50	-338.13	10.62	4,840.77	4,830.89	-92.57	-265.52	8.44	792.45	774.41	11.25	43.930
5,000.00	4,911.75	694.54	-337.59	10.70	4,915.74	4,905.67	-93.61	-270.85	8.57	790.98	772.69	10.00	43.253
5,023.00	4,934.73	693.63	-337.35	10.73	4,941.47	4,931.35	-93.80	-272.33	8.62	790.10	771.73	9.86	43.011

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-2210B - Plan D_ST-1 - Actual Field Surveys_ST-1

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
5,100.00	5,011.59	689.06	-336.40	10.81	6,386.61	5,728.49	711.19	-284.22	14.47	722.13	696.93	-141.00	28.654
5,115.00	5,026.54	687.87	-336.20	10.83	6,385.00	5,728.56	709.61	-284.50	14.47	707.25	682.08	-142.75	28.103
5,146.00	5,057.22	683.54	-336.20	10.86	6,379.91	5,728.78	704.61	-285.40	14.46	676.80	652.36	-162.62	27.687
5,176.00	5,086.39	676.58	-336.48	10.87	6,372.44	5,729.12	697.26	-286.74	14.45	647.97	624.19	-165.69	27.246
5,200.00	5,109.28	669.39	-336.66	10.87	6,364.98	5,729.46	689.93	-288.09	14.45	625.40	602.16	-168.09	26.901
5,206.00	5,114.93	667.36	-336.72	10.87	6,362.89	5,729.56	687.88	-288.47	14.45	619.85	596.74	-168.57	26.820
5,238.00	5,144.15	654.39	-337.45	10.86	6,349.78	5,730.19	675.01	-290.89	14.44	591.23	569.13	-171.32	26.753
5,268.00	5,170.13	639.46	-338.68	10.85	6,334.84	5,730.94	660.36	-293.70	14.42	565.99	544.63	-172.42	26.507
5,299.00	5,195.92	622.32	-340.13	10.82	6,317.77	5,731.84	643.63	-296.99	14.41	541.07	520.18	-172.87	25.900
5,300.00	5,196.73	621.75	-340.18	10.82	6,317.20	5,731.87	643.07	-297.10	14.41	540.28	519.40	-172.88	25.880
5,329.00	5,220.11	604.64	-341.48	10.79	6,300.15	5,732.82	626.39	-300.47	14.39	517.79	497.33	-173.25	25.307
5,359.00	5,243.93	586.43	-342.58	10.75	6,282.00	5,733.89	608.64	-304.13	14.38	494.96	474.56	-173.34	24.267
5,389.00	5,267.55	567.96	-343.56	10.72	6,263.55	5,735.02	590.62	-307.93	14.37	472.36	452.15	-173.74	23.371
5,400.00	5,276.11	561.07	-344.00	10.71	6,256.64	5,735.46	583.87	-309.37	14.36	464.20	444.08	-173.96	23.064
5,420.00	5,291.47	548.31	-345.03	10.69	6,243.80	5,736.29	571.35	-312.08	14.35	449.62	429.65	-174.34	22.518
5,451.00	5,314.73	527.89	-346.79	10.66	6,223.22	5,737.67	551.30	-316.49	14.33	427.66	408.06	-174.72	21.823
5,482.00	5,337.45	506.86	-348.40	10.62	6,200.88	5,739.22	529.55	-321.36	14.32	406.31	386.91	-175.10	20.945
5,500.00	5,350.53	494.53	-349.31	10.60	6,187.59	5,740.14	516.62	-324.27	14.31	394.03	374.63	-175.36	20.319
5,513.00	5,359.98	485.63	-349.99	10.59	6,177.99	5,740.80	507.28	-326.37	14.30	385.15	365.77	-175.54	19.867
5,543.00	5,381.68	464.95	-351.26	10.56	6,155.82	5,742.31	485.69	-331.23	14.29	364.77	345.56	-175.93	18.989
5,573.00	5,402.95	443.81	-352.09	10.52	6,133.35	5,743.82	463.82	-336.16	14.27	344.82	325.95	-176.65	18.269
5,600.00	5,421.44	424.15	-352.46	10.49	6,112.66	5,745.19	443.69	-340.71	14.25	327.54	309.07	-177.38	17.734
5,605.00	5,424.79	420.43	-352.47	10.49	6,108.78	5,745.45	439.91	-341.56	14.25	324.43	306.03	-177.54	17.636
5,637.00	5,445.64	396.16	-352.23	10.45	6,084.41	5,747.06	416.20	-346.92	14.24	305.13	287.17	-178.68	16.989
5,669.00	5,465.87	371.38	-351.62	10.42	6,057.03	5,748.86	389.55	-352.97	14.22	286.57	268.75	-179.80	16.089
5,700.00	5,484.83	346.86	-351.02	10.39	6,029.32	5,750.39	362.62	-359.28	14.20	269.15	251.73	-177.98	15.448
5,732.00	5,503.39	320.80	-350.50	10.36	5,994.36	5,751.68	328.58	-367.17	14.17	251.97	234.84	-175.54	14.715
5,764.00	5,521.35	294.32	-349.90	10.33	5,908.43	5,742.49	245.18	-384.45	10.84	232.05	214.21	-167.35	13.004
5,795.00	5,538.21	268.31	-349.46	10.31	5,843.62	5,720.72	185.23	-395.20	10.68	208.35	190.42	-157.69	11.621
5,800.00	5,540.84	264.06	-349.43	10.30	5,835.81	5,717.24	178.32	-396.32	10.66	204.29	186.34	-156.29	11.385
5,827.00	5,554.39	240.71	-349.35	10.29	5,802.83	5,700.76	150.04	-400.24	10.58	182.00	163.93	-149.84	10.075
5,858.00	5,568.43	213.08	-349.71	10.27	5,769.26	5,681.30	122.78	-402.18	10.49	155.99	137.70	-142.71	8.527
5,890.00	5,581.05	183.69	-350.47	10.25	5,744.62	5,665.46	103.92	-401.96	10.42	129.06	110.49	-136.48	6.952
5,900.00	5,584.66	174.37	-350.72	10.25	5,737.78	5,660.89	98.84	-401.68	10.40	120.75	102.01	-133.53	6.446
5,921.00	5,592.06	154.72	-351.27	10.23	5,724.44	5,651.78	89.13	-400.88	10.36	103.43	84.30	-126.68	5.407
5,953.00	5,602.81	124.59	-352.04	10.21	5,706.15	5,638.90	76.26	-399.17	10.31	78.01	58.22	-114.49	3.942
5,984.00	5,612.02	95.00	-352.61	10.19	5,689.94	5,627.16	65.28	-397.05	10.27	56.47	36.16	-101.91	2.780
6,000.00	5,616.27	79.58	-352.87	10.18	5,681.82	5,621.21	59.91	-395.79	10.25	47.88	27.36	-93.10	2.334
6,016.00	5,620.39	64.12	-353.19	10.17	5,674.02	5,615.44	54.83	-394.45	10.23	42.33	21.76	-83.76	2.057
6,027.71	5,623.28	52.77	-353.42	10.17	5,668.44	5,611.28	51.25	-393.41	10.21	41.01	20.50	-76.94	1.999
6,047.00	5,627.67	33.99	-353.66	10.20	5,659.96	5,604.93	45.89	-391.76	10.19	44.53	24.28	-66.28	2.200
6,079.00	5,633.60	2.55	-353.73	10.28	5,645.76	5,594.12	37.11	-388.97	10.15	61.38	41.97	-48.88	3.162
6,100.00	5,636.74	-18.21	-353.61	10.33	5,637.00	5,587.35	31.83	-387.23	10.13	76.06	57.14	-40.66	4.019
6,112.00	5,638.42	-30.09	-353.51	10.37	5,631.42	5,583.00	28.52	-386.11	10.12	85.12	66.48	-36.12	4.565
6,200.00	5,647.45	-117.61	-352.98	13.37	5,596.20	5,554.75	8.77	-378.91	10.03	157.13	139.67	-17.62	9.000
6,221.00	5,648.72	-138.57	-352.96	14.15	5,587.48	5,547.60	4.13	-377.07	10.01	174.84	157.55	-14.90	10.110
6,300.00	5,653.50	-217.42	-352.57	14.20	5,553.08	5,519.25	-13.60	-369.01	9.92	242.98	225.93	-7.07	14.252
6,315.00	5,654.56	-232.38	-352.42	14.21	5,546.40	5,513.78	-16.97	-367.17	9.91	256.13	239.11	-5.77	15.046
6,400.00	5,659.08	-317.25	-351.76	14.27	5,522.58	5,494.17	-28.48	-360.09	9.84	331.17	314.38	-2.69	19.718
6,410.00	5,659.40	-327.25	-351.72	14.27	5,520.13	5,492.12	-29.60	-359.34	9.84	340.06	323.29	-2.44	20.273
6,500.00	5,660.22	-417.24	-352.30	14.34	5,501.07	5,475.99	-37.84	-353.41	9.78	420.46	403.81	-2.23	25.253
6,504.00	5,660.17	-421.24	-352.36	14.34	5,500.31	5,475.34	-38.14	-353.18	9.78	424.05	407.41	-2.24	25.475

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-2210B - Plan D_ST-1 - Actual Field Surveys_ST-1

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
6,599.00	5,659.29	-516.22	-353.62	14.41	5,482.00	5,459.41	-45.17	-347.51	9.73	510.57	493.89	-0.46	30.609
6,600.00	5,659.29	-517.22	-353.63	14.41	5,482.00	5,459.41	-45.17	-347.51	9.73	511.50	494.81	-0.40	30.661
6,693.00	5,659.15	-610.17	-356.52	14.48	5,470.48	5,449.20	-49.18	-344.02	9.70	598.07	581.24	4.64	35.531
6,700.00	5,659.17	-617.16	-356.89	14.49	5,469.56	5,448.37	-49.49	-343.75	9.70	604.65	587.80	4.96	35.893
6,788.00	5,659.67	-704.93	-363.18	14.56	5,451.00	5,431.59	-55.33	-338.39	9.65	687.93	670.92	8.45	40.426
6,800.00	5,659.76	-716.89	-364.20	14.58	5,451.00	5,431.59	-55.33	-338.39	9.65	699.30	682.31	7.47	41.153
6,883.00	5,659.59	-799.71	-369.49	14.66	5,451.00	5,431.59	-55.33	-338.39	9.65	778.26	761.37	0.54	46.066
6,900.00	5,659.40	-816.70	-370.16	14.68	5,451.00	5,431.59	-55.33	-338.39	9.65	794.50	777.60	-1.37	47.009
6,977.00	5,658.30	-893.68	-371.02	14.77	5,438.41	5,420.03	-58.90	-334.92	9.62	868.05	850.94	-10.52	50.734
7,000.00	5,657.93	-916.67	-370.73	14.80	5,435.95	5,417.75	-59.56	-334.25	9.61	890.07	872.92	-10.65	51.900
7,072.00	5,656.94	-988.66	-369.82	14.90	5,420.00	5,402.90	-63.60	-330.06	9.57	959.34	942.07	-11.17	55.546
7,100.00	5,656.59	-1,016.66	-369.60	14.94	5,420.00	5,402.90	-63.60	-330.06	9.57	986.27	969.03	-9.19	57.208
7,166.00	5,655.60	-1,082.65	-370.14	15.07	5,420.00	5,402.90	-63.60	-330.06	9.57	1,049.96	1,032.74	-4.28	60.992
7,200.00	5,655.12	-1,116.64	-370.53	15.15	5,420.00	5,402.90	-63.60	-330.06	9.57	1,082.89	1,065.52	-8.04	62.341
7,261.00	5,654.73	-1,177.63	-369.85	15.33	5,420.00	5,402.90	-63.60	-330.06	9.57	1,142.18	1,124.30	-15.31	63.899
7,300.00	5,654.63	-1,216.63	-369.39	15.47	5,420.00	5,402.90	-63.60	-330.06	9.57	1,180.21	1,162.64	-8.26	67.164
7,355.00	5,654.34	-1,271.61	-370.61	15.70	5,420.00	5,402.90	-63.60	-330.06	9.57	1,233.96	1,216.41	2.25	70.300
7,400.00	5,654.03	-1,316.56	-372.60	15.92	5,406.73	5,390.41	-66.55	-326.68	9.54	1,277.72	1,260.10	2.63	72.520
7,450.00	5,653.67	-1,366.50	-375.06	16.19	5,404.38	5,388.20	-67.03	-326.09	9.53	1,326.62	1,308.89	3.88	74.803
7,500.00	5,653.42	-1,416.47	-376.66	16.49	5,402.14	5,386.08	-67.47	-325.52	9.53	1,375.61	1,357.72	-7.34	76.874
7,545.00	5,653.41	-1,461.47	-376.41	16.76	5,389.00	5,373.56	-69.83	-322.26	9.50	1,419.95	1,401.25	-17.48	75.940
7,600.00	5,653.58	-1,516.46	-375.76	17.12	5,389.00	5,373.56	-69.83	-322.26	9.50	1,473.89	1,455.57	-11.32	80.429
7,639.00	5,653.80	-1,555.46	-376.06	17.37	5,389.00	5,373.56	-69.83	-322.26	9.50	1,512.24	1,494.09	-6.50	83.333
7,700.00	5,654.16	-1,616.43	-378.07	17.79	5,389.00	5,373.56	-69.83	-322.26	9.50	1,572.31	1,554.05	4.61	86.137
7,734.00	5,654.33	-1,650.36	-380.10	18.03	5,389.00	5,373.56	-69.83	-322.26	9.50	1,605.80	1,587.09	10.82	85.823
7,800.00	5,654.58	-1,716.12	-385.69	18.51	5,389.00	5,373.56	-69.83	-322.26	9.50	1,670.81	1,650.83	20.49	83.608
7,828.00	5,654.67	-1,743.96	-388.68	18.71	5,389.00	5,373.56	-69.83	-322.26	9.50	1,698.38	1,677.73	24.34	82.266
7,900.00	5,655.24	-1,815.84	-391.45	19.23	5,389.00	5,373.56	-69.83	-322.26	9.50	1,769.47	1,748.24	-27.49	83.379
7,923.00	5,655.59	-1,838.79	-390.06	19.40	5,389.00	5,373.56	-69.83	-322.26	9.50	1,792.12	1,768.47	-40.99	75.784
8,000.00	5,656.61	-1,915.59	-384.67	19.98	5,376.20	5,361.32	-71.90	-319.14	9.47	1,867.87	1,845.58	-31.52	83.791
8,018.00	5,656.78	-1,933.57	-383.73	20.11	5,374.18	5,359.39	-72.22	-318.66	9.46	1,885.61	1,863.65	-29.24	85.896
8,100.00	5,657.14	-2,015.50	-380.45	20.76	5,365.07	5,350.67	-73.67	-316.48	9.44	1,966.44	1,945.41	-22.27	93.483
8,113.00	5,657.14	-2,028.49	-380.07	20.86	5,359.00	5,344.84	-74.62	-315.05	9.43	1,979.27	1,958.40	-21.07	94.835
8,200.00	5,654.81	-2,115.43	-378.10	21.56	5,352.50	5,338.60	-75.63	-313.53	9.41	2,064.72	2,044.78	-13.41	103.579
8,205.00	5,654.54	-2,120.42	-378.01	21.60	5,351.77	5,337.89	-75.74	-313.37	9.41	2,069.60	2,049.70	-13.07	103.989
8,244.17	5,653.36	-2,159.56	-377.00	21.82	5,346.65	5,332.97	-76.53	-312.20	9.40	2,108.06	2,086.49	-22.83	97.698
8,300.00	5,653.11	-2,215.35	-375.05	21.97	5,340.33	5,326.89	-77.50	-310.80	9.39	2,163.10	2,141.53	-22.66	100.263
8,389.17	5,652.72	-2,304.47	-371.94	22.24	5,329.00	5,315.96	-79.21	-308.36	9.36	2,251.05	2,229.48	-22.35	104.350
8,400.00	5,652.68	-2,315.29	-371.58	22.27	5,329.00	5,315.96	-79.21	-308.36	9.36	2,261.73	2,240.32	-21.39	105.631
8,439.76	5,652.67	-2,355.04	-370.59	22.40	5,329.00	5,315.96	-79.21	-308.36	9.36	2,301.01	2,280.20	-17.57	110.614
8,500.00	5,652.79	-2,415.27	-369.47	22.60	5,329.00	5,315.96	-79.21	-308.36	9.36	2,360.58	2,339.73	-17.57	113.216
8,600.00	5,652.99	-2,515.25	-367.63	22.97	5,329.00	5,315.96	-79.21	-308.36	9.36	2,459.55	2,438.60	-17.57	117.437
8,700.00	5,653.20	-2,615.23	-365.79	23.38	5,329.00	5,315.96	-79.21	-308.36	9.36	2,558.60	2,537.54	-17.57	121.534
8,800.00	5,653.40	-2,715.22	-363.94	23.82	5,315.39	5,302.77	-81.13	-305.60	9.33	2,657.56	2,636.45	-17.35	125.869
8,900.00	5,653.60	-2,815.20	-362.10	24.29	5,312.45	5,299.91	-81.52	-305.03	9.32	2,756.67	2,735.44	-17.30	129.803
9,000.00	5,653.81	-2,915.18	-360.25	24.79	5,299.00	5,286.79	-83.14	-302.54	9.30	2,855.93	2,834.61	-17.06	133.951
9,100.00	5,654.01	-3,015.16	-358.41	25.32	5,299.00	5,286.79	-83.14	-302.54	9.30	2,955.09	2,933.61	-17.06	137.544
9,200.00	5,654.22	-3,115.15	-356.56	25.88	5,299.00	5,286.79	-83.14	-302.54	9.30	3,054.31	3,032.65	-17.06	140.998
9,300.00	5,654.42	-3,215.13	-354.72	26.46	5,299.00	5,286.79	-83.14	-302.54	9.30	3,153.58	3,131.73	-17.06	144.314
9,400.00	5,654.62	-3,315.11	-352.87	27.06	5,299.00	5,286.79	-83.14	-302.54	9.30	3,252.89	3,230.84	-17.06	147.493
9,500.00	5,654.83	-3,415.10	-351.03	27.69	5,299.00	5,286.79	-83.14	-302.54	9.30	3,352.25	3,329.98	-17.06	150.537
9,584.92	5,655.00	-3,500.00	-349.46	28.23	5,299.00	5,286.79	-83.14	-302.54	9.30	3,436.65	3,414.19	-17.06	153.019

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-2210B - Plan D_ST-1 - Actual Field Surveys_ST-1

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
9,600.00	5,655.06	-3,515.08	-349.21	28.32	5,299.00	5,286.79	-83.14	-302.54	9.30	3,451.64	3,429.52	-15.44	155.999
9,653.95	5,655.66	-3,569.03	-348.84	28.63	5,299.00	5,286.79	-83.14	-302.54	9.30	3,505.34	3,484.39	-8.31	167.320
9,700.00	5,656.44	-3,615.07	-348.86	28.91	5,299.00	5,286.79	-83.14	-302.54	9.30	3,551.21	3,530.18	-8.31	168.861
9,800.00	5,658.14	-3,715.05	-348.90	29.59	5,299.00	5,286.79	-83.14	-302.54	9.30	3,650.84	3,629.63	-8.31	172.096
9,900.00	5,659.84	-3,815.04	-348.95	30.28	5,299.00	5,286.79	-83.14	-302.54	9.30	3,750.49	3,729.09	-8.31	175.207
10,000.00	5,661.54	-3,915.02	-348.99	30.99	5,299.00	5,286.79	-83.14	-302.54	9.30	3,850.16	3,828.55	-8.31	178.194
10,100.00	5,663.24	-4,015.01	-349.03	31.72	5,299.00	5,286.79	-83.14	-302.54	9.30	3,949.84	3,928.03	-8.31	181.062
10,200.00	5,664.95	-4,114.99	-349.08	32.46	5,299.00	5,286.79	-83.14	-302.54	9.30	4,049.54	4,027.51	-8.31	183.813
10,300.00	5,666.65	-4,214.98	-349.12	33.21	5,285.60	5,273.68	-84.52	-300.17	9.27	4,149.12	4,126.87	-8.39	186.518
10,400.00	5,668.35	-4,314.97	-349.16	33.97	5,284.39	5,272.49	-84.63	-299.95	9.26	4,248.82	4,226.35	-8.40	189.049
10,500.00	5,670.05	-4,414.95	-349.21	34.74	5,283.22	5,271.35	-84.74	-299.75	9.26	4,348.54	4,325.83	-8.41	191.474
10,600.00	5,671.75	-4,514.94	-349.25	35.53	5,282.10	5,270.25	-84.84	-299.55	9.26	4,448.26	4,425.31	-8.41	193.796
10,700.00	5,673.45	-4,614.92	-349.29	36.32	5,268.00	5,256.42	-85.98	-297.06	9.23	4,548.12	4,524.93	-8.48	196.097
10,800.00	5,675.15	-4,714.91	-349.34	37.12	5,268.00	5,256.42	-85.98	-297.06	9.23	4,647.85	4,624.40	-8.48	198.216
10,900.00	5,676.85	-4,814.89	-349.38	37.93	5,268.00	5,256.42	-85.98	-297.06	9.23	4,747.58	4,723.88	-8.48	200.246
11,000.00	5,678.55	-4,914.88	-349.42	38.75	5,268.00	5,256.42	-85.98	-297.06	9.23	4,847.33	4,823.36	-8.48	202.188
11,085.13	5,680.00	-5,000.00	-349.46	39.46	5,268.00	5,256.42	-85.98	-297.06	9.23	4,932.26	4,908.06	-8.48	203.777
11,100.00	5,680.21	-5,014.86	-349.47	39.58	5,268.00	5,256.42	-85.98	-297.06	9.23	4,947.09	4,922.95	-8.04	204.933
11,120.18	5,680.38	-5,035.04	-349.47	39.75	5,268.00	5,256.42	-85.98	-297.06	9.23	4,967.20	4,943.12	-7.52	206.298
11,200.00	5,680.76	-5,114.86	-349.47	40.41	5,268.00	5,256.42	-85.98	-297.06	9.23	5,046.77	5,022.48	-7.52	207.742
11,300.00	5,681.24	-5,214.86	-349.47	41.25	5,268.00	5,256.42	-85.98	-297.06	9.23	5,146.46	5,121.89	-7.52	209.481
11,400.00	5,681.72	-5,314.86	-349.47	42.10	5,268.00	5,256.42	-85.98	-297.06	9.23	5,246.16	5,221.32	-7.52	211.148
11,500.00	5,682.20	-5,414.86	-349.46	42.95	5,268.00	5,256.42	-85.98	-297.06	9.23	5,345.88	5,320.75	-7.52	212.745
11,600.00	5,682.68	-5,514.86	-349.46	43.81	5,268.00	5,256.42	-85.98	-297.06	9.23	5,445.60	5,420.19	-7.52	214.276
11,700.00	5,683.16	-5,614.86	-349.46	44.67	5,268.00	5,256.42	-85.98	-297.06	9.23	5,545.33	5,519.63	-7.52	215.743
11,800.00	5,683.64	-5,714.86	-349.46	45.54	5,268.00	5,256.42	-85.98	-297.06	9.23	5,645.08	5,619.08	-7.52	217.150
11,900.00	5,684.11	-5,814.85	-349.46	46.41	5,268.00	5,256.42	-85.98	-297.06	9.23	5,744.83	5,718.54	-7.52	218.499
12,000.00	5,684.59	-5,914.85	-349.46	47.29	5,268.00	5,256.42	-85.98	-297.06	9.23	5,844.59	5,818.00	-7.52	219.793
12,085.15	5,685.00	-6,000.00	-349.46	48.03	5,268.00	5,256.42	-85.98	-297.06	9.23	5,929.54	5,902.69	-7.52	220.854
12,100.00	5,685.03	-6,014.85	-349.46	48.17	5,268.00	5,256.42	-85.98	-297.06	9.23	5,944.36	5,917.60	-6.99	222.156
12,198.86	5,683.29	-6,113.69	-349.46	49.04	5,268.00	5,256.42	-85.98	-297.06	9.23	6,042.82	6,016.25	-4.72	227.470
12,200.00	5,683.25	-6,114.83	-349.46	49.05	5,268.00	5,256.42	-85.98	-297.06	9.23	6,043.95	6,017.38	-4.72	227.484
12,300.00	5,679.76	-6,214.77	-349.46	49.94	5,268.00	5,256.42	-85.98	-297.06	9.23	6,143.41	6,116.54	-4.72	228.689
12,400.00	5,676.27	-6,314.71	-349.46	50.83	5,268.00	5,256.42	-85.98	-297.06	9.23	6,242.88	6,215.72	-4.72	229.847
12,500.00	5,672.78	-6,414.65	-349.46	51.72	5,268.00	5,256.42	-85.98	-297.06	9.23	6,342.37	6,314.91	-4.72	230.960
12,600.00	5,669.29	-6,514.59	-349.46	52.62	5,268.00	5,256.42	-85.98	-297.06	9.23	6,441.87	6,414.11	-4.72	232.031
12,700.00	5,665.80	-6,614.53	-349.46	53.52	5,268.00	5,256.42	-85.98	-297.06	9.23	6,541.39	6,513.32	-4.72	233.062
12,800.00	5,662.31	-6,714.47	-349.46	54.42	5,254.14	5,242.80	-86.92	-294.67	9.20	6,640.84	6,612.47	-4.84	234.070
12,900.00	5,658.82	-6,814.41	-349.46	55.33	5,252.34	5,241.03	-87.04	-294.37	9.20	6,740.37	6,711.69	-4.85	235.024
13,000.00	5,655.33	-6,914.34	-349.46	56.23	5,250.58	5,239.29	-87.14	-294.08	9.19	6,839.91	6,810.92	-4.86	235.942
13,100.00	5,651.84	-7,014.28	-349.46	57.14	5,238.00	5,226.90	-87.86	-292.03	9.17	6,939.50	6,910.20	-4.95	236.851
13,117.21	5,651.24	-7,031.48	-349.46	57.30	5,238.00	5,226.90	-87.86	-292.03	9.17	6,956.63	6,927.28	-4.95	236.998

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-2212B - Plan C - Actual Field Surveys

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre		Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre		Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
		+N/-S (usft)	+E/-W (usft)				+N/-S (usft)	+E/-W (usft)					
100.00	100.00	0.04	-0.03	3.29	97.05	97.04	-75.23	65.11	3.29	99.55	92.01	176.29	13.193
177.00	177.00	0.14	-0.10	3.29	174.08	174.07	-75.59	64.63	3.29	99.62	92.07	176.63	13.190
200.00	200.00	0.19	-0.13	3.30	197.06	197.05	-75.72	64.45	3.30	99.67	92.11	154.46	13.186
268.00	268.00	0.65	-0.17	3.31	264.98	264.98	-76.18	63.89	3.31	100.03	92.45	142.27	13.187
300.00	300.00	0.97	-0.19	3.32	297.02	297.01	-76.41	63.62	3.32	100.29	92.69	144.81	13.191
359.00	358.99	1.58	-0.26	3.34	356.09	356.07	-76.87	63.01	3.34	100.78	93.14	149.14	13.187
400.00	399.99	2.02	-0.35	3.36	397.21	397.19	-77.18	62.53	3.35	101.12	93.45	156.89	13.176
451.00	450.99	2.56	-0.54	3.38	448.36	448.34	-77.51	61.89	3.38	101.53	93.81	165.94	13.150
500.00	499.98	3.08	-0.76	3.41	497.29	497.26	-77.80	61.26	3.40	101.93	94.16	164.37	13.119
544.00	543.98	3.57	-0.95	3.43	541.21	541.18	-78.08	60.72	3.42	102.33	94.51	163.04	13.089
600.00	599.98	4.08	-1.19	3.46	597.19	597.15	-78.47	60.04	3.46	102.78	94.89	176.30	13.033
635.00	634.98	4.28	-1.35	3.49	632.18	632.14	-78.73	59.59	3.48	102.97	95.04	-168.07	12.982
700.00	699.98	4.48	-1.60	3.53	696.13	696.08	-79.40	59.02	3.53	103.50	95.48	-158.44	12.901
727.00	726.98	4.52	-1.68	3.55	722.67	722.62	-79.81	58.95	3.55	103.87	95.81	-149.13	12.883
800.00	799.98	4.49	-1.93	3.61	793.86	793.79	-81.50	59.20	3.61	105.55	97.37	-101.48	12.904
819.00	818.98	4.44	-2.02	3.62	812.37	812.29	-82.12	59.37	3.63	106.18	97.97	-96.42	12.931
900.00	899.98	4.28	-2.30	3.70	892.75	892.61	-84.88	60.75	3.70	109.29	100.94	-96.89	13.076
911.00	910.97	4.27	-2.32	3.71	903.69	903.53	-85.21	61.04	3.71	109.74	101.36	-97.17	13.096
993.00	992.97	4.89	-2.69	3.79	983.89	983.63	-87.60	64.24	3.79	114.34	105.80	169.34	13.388
1,000.00	999.97	5.00	-2.74	3.80	990.71	990.44	-87.80	64.61	3.80	114.86	106.30	166.99	13.426
1,087.00	1,086.93	7.57	-3.42	3.89	1,075.10	1,074.57	-90.26	70.66	3.89	123.07	114.33	153.96	14.079
1,100.00	1,099.91	8.13	-3.53	3.91	1,087.65	1,087.07	-90.61	71.80	3.90	124.59	115.82	151.96	14.205
1,176.00	1,175.78	12.54	-3.97	4.00	1,163.72	1,162.74	-92.18	79.39	3.99	134.23	125.28	144.47	15.005
1,200.00	1,199.72	14.29	-4.09	4.03	1,187.84	1,186.73	-92.41	81.95	4.02	137.44	128.43	145.74	15.267
1,268.00	1,267.49	19.86	-4.76	4.12	1,257.65	1,256.19	-92.57	88.86	4.11	146.55	137.38	148.53	15.987
1,300.00	1,299.35	22.82	-5.26	4.16	1,289.96	1,288.37	-92.45	91.70	4.15	150.83	141.59	150.10	16.315
1,360.00	1,359.01	29.01	-6.57	4.25	1,348.54	1,346.72	-92.26	96.94	4.22	159.70	150.31	152.40	17.001
1,400.00	1,398.73	33.60	-7.76	4.31	1,388.03	1,386.04	-92.18	100.61	4.27	166.31	156.81	154.71	17.516
1,451.00	1,449.28	40.00	-9.75	4.38	1,439.10	1,436.88	-91.81	105.39	4.35	175.27	165.64	157.02	18.207
1,500.00	1,497.77	46.65	-12.21	4.46	1,488.06	1,485.62	-91.15	109.94	4.42	184.38	174.63	160.11	18.904
1,542.00	1,539.25	52.69	-14.82	4.52	1,529.94	1,527.33	-90.50	113.68	4.47	192.60	182.93	162.33	19.928
1,600.00	1,596.52	60.92	-18.80	4.57	1,588.93	1,586.10	-89.26	118.68	4.56	203.74	193.94	164.34	20.804
1,636.00	1,632.11	65.72	-21.34	4.60	1,622.40	1,619.43	-88.48	121.56	4.58	210.45	200.71	165.69	21.604
1,700.00	1,695.37	74.10	-26.29	4.62	1,686.04	1,682.81	-87.20	127.23	4.60	222.88	213.12	168.48	22.846
1,728.00	1,723.02	77.79	-28.69	4.62	1,714.42	1,711.08	-86.52	129.62	4.60	228.34	218.58	169.58	23.402
1,800.00	1,793.94	87.89	-35.93	4.65	1,787.32	1,783.72	-84.40	135.37	4.61	243.05	233.30	172.31	24.919
1,819.00	1,812.59	90.74	-38.13	4.65	1,806.53	1,802.86	-83.73	136.81	4.62	247.16	237.41	172.86	25.344
1,900.00	1,891.68	105.13	-48.01	4.69	1,886.00	1,882.07	-80.69	142.63	4.64	266.30	256.55	165.27	27.318
1,911.00	1,902.35	107.40	-49.38	4.70	1,896.70	1,892.73	-80.27	143.42	4.64	269.14	259.39	164.47	27.612
2,000.00	1,988.11	127.83	-61.59	4.77	1,984.57	1,980.29	-76.50	149.62	4.68	293.91	284.16	164.24	30.142
2,002.00	1,990.02	128.33	-61.89	4.77	1,986.54	1,982.26	-76.41	149.76	4.68	294.51	284.75	164.24	30.203
2,094.00	2,078.12	150.97	-75.65	4.86	2,059.92	2,055.38	-74.18	155.37	4.71	323.19	313.34	165.10	32.809
2,100.00	2,083.87	152.42	-76.55	4.87	2,064.44	2,059.88	-74.16	155.79	4.72	325.20	315.34	165.18	32.987
2,185.00	2,165.55	172.32	-89.10	4.96	2,138.99	2,134.04	-74.97	163.34	4.76	354.52	344.54	166.39	35.522
2,200.00	2,180.01	175.69	-91.28	4.98	2,153.71	2,148.69	-75.17	164.78	4.76	359.58	349.57	166.73	35.937
2,277.00	2,254.41	192.13	-102.30	5.08	2,227.82	2,222.47	-76.15	171.69	4.81	384.56	374.43	168.51	37.963
2,300.00	2,276.71	196.79	-105.54	5.11	2,249.67	2,244.23	-76.45	173.70	4.83	391.79	381.62	168.74	38.533
2,368.00	2,342.75	210.01	-114.87	5.20	2,315.53	2,309.82	-77.39	179.61	4.87	412.58	402.29	169.43	40.129
2,400.00	2,373.80	216.29	-119.37	5.25	2,346.86	2,341.03	-77.87	182.28	4.90	422.38	412.07	169.41	40.978
2,459.00	2,430.64	229.13	-128.60	5.34	2,402.56	2,396.54	-78.78	186.82	4.94	441.88	431.53	169.40	42.684
2,500.00	2,469.97	238.48	-135.45	5.41	2,440.47	2,434.32	-79.50	189.87	4.98	456.08	445.65	170.51	43.735
2,551.00	2,518.97	249.71	-144.02	5.49	2,487.30	2,480.98	-80.47	193.67	5.02	473.59	463.06	171.89	45.002

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-2212B - Plan C - Actual Field Surveys

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft . Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre		Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre		Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
		+N/-S (usft)	+E/-W (usft)				+N/-S (usft)	+E/-W (usft)					
2,600.00	2,566.13	260.20	-152.23	5.58	2,532.09	2,525.59	-81.33	197.54	5.06	490.29	479.67	171.93	46.165
2,642.00	2,606.60	269.03	-159.16	5.66	2,573.35	2,566.67	-81.96	201.31	5.09	504.47	493.76	171.92	47.118
2,700.00	2,662.37	281.98	-168.45	5.77	2,633.62	2,626.68	-81.97	206.98	5.15	523.90	513.09	166.74	48.479
2,733.00	2,693.94	290.09	-173.55	5.84	2,666.79	2,659.69	-81.56	210.14	5.19	535.09	524.23	164.11	49.251
2,800.00	2,758.00	306.84	-183.78	5.98	2,733.64	2,726.25	-80.50	216.27	5.26	557.59	546.57	165.11	50.600
2,825.00	2,781.94	312.96	-187.61	6.03	2,757.96	2,750.48	-80.08	218.40	5.29	565.80	554.72	165.48	51.072
2,900.00	2,854.15	330.61	-197.49	6.19	2,830.97	2,823.23	-78.94	224.41	5.37	588.66	577.35	159.14	52.038
2,917.00	2,870.61	334.46	-199.29	6.22	2,846.63	2,838.83	-78.71	225.68	5.39	593.41	582.05	157.49	52.223
3,000.00	2,951.33	352.00	-207.39	6.39	2,924.66	2,916.56	-77.41	232.51	5.48	615.55	603.97	159.07	53.134
3,008.00	2,959.14	353.58	-208.14	6.41	2,933.31	2,925.17	-77.24	233.28	5.49	617.59	605.98	159.23	53.205
3,100.00	3,049.28	369.97	-216.48	6.59	3,032.97	3,024.46	-74.78	241.47	5.62	638.75	626.87	162.38	53.770
3,192.00	3,139.53	386.26	-223.69	6.76	3,122.61	3,113.84	-72.16	247.73	5.74	657.95	645.84	153.21	54.313
3,200.00	3,147.36	387.81	-224.25	6.78	3,128.87	3,120.09	-72.03	248.17	5.75	659.71	647.58	153.26	54.369
3,283.00	3,228.60	403.78	-230.04	6.94	3,189.00	3,180.05	-71.65	252.57	5.82	678.98	666.65	153.86	55.055
3,300.00	3,245.24	407.04	-231.22	6.98	3,207.25	3,198.24	-71.77	254.02	5.85	683.12	670.74	153.79	55.165
3,375.00	3,318.68	421.38	-236.36	7.13	3,267.16	3,257.89	-72.34	259.63	5.93	702.22	689.64	153.41	55.824
3,400.00	3,343.16	426.15	-238.07	7.18	3,288.10	3,278.70	-72.60	261.88	5.96	708.86	696.22	153.94	56.059
3,467.00	3,408.76	438.91	-242.86	7.32	3,350.75	3,340.97	-73.44	268.81	6.05	726.99	714.16	155.35	56.658
3,500.00	3,441.06	445.20	-245.33	7.39	3,381.72	3,371.73	-73.88	272.30	6.09	736.06	723.14	155.85	56.953
3,558.00	3,497.80	456.33	-249.84	7.52	3,436.80	3,426.45	-74.66	278.56	6.18	752.22	739.13	156.71	57.470
3,600.00	3,538.88	464.38	-253.24	7.61	3,475.95	3,465.34	-75.21	283.06	6.24	764.03	750.82	157.62	57.833
3,649.00	3,586.82	473.66	-257.33	7.72	3,519.56	3,508.64	-75.85	288.25	6.31	777.99	764.64	158.67	58.259
3,700.00	3,636.73	483.21	-261.68	7.83	3,569.07	3,557.76	-76.63	294.35	6.38	792.69	779.18	159.06	58.663
3,741.00	3,676.87	490.81	-265.20	7.92	3,623.19	3,611.52	-77.07	300.54	6.47	804.01	790.35	159.38	58.848
3,800.00	3,734.66	501.48	-270.45	8.06	3,686.76	3,674.77	-77.01	306.97	6.58	819.33	805.47	161.84	59.124
3,832.00	3,766.02	507.10	-273.43	8.13	3,717.51	3,705.36	-77.00	310.00	6.63	827.58	813.62	163.20	59.287
3,900.00	3,832.67	518.90	-279.93	8.28	3,784.51	3,772.06	-77.13	316.42	6.74	845.10	830.92	163.33	59.612
3,924.00	3,856.19	523.08	-282.23	8.34	3,808.46	3,795.91	-77.23	318.60	6.78	851.27	837.01	163.38	59.719
4,000.00	3,930.33	538.42	-288.78	8.52	3,882.64	3,869.80	-77.71	325.08	6.90	871.63	857.14	152.30	60.156
4,015.00	3,944.87	541.94	-289.89	8.55	3,897.09	3,884.20	-77.81	326.33	6.92	875.86	861.33	150.58	60.256
4,100.00	4,026.80	563.67	-296.14	8.77	3,974.41	3,961.22	-78.42	333.06	7.05	901.16	886.37	149.48	60.925
4,106.00	4,032.55	565.30	-296.59	8.78	3,979.70	3,966.49	-78.47	333.54	7.06	903.04	888.23	149.42	60.979
4,197.00	4,120.02	589.46	-303.49	9.03	4,063.95	4,050.37	-79.26	341.37	7.21	931.38	916.26	151.08	61.580
4,200.00	4,122.91	590.23	-303.72	9.04	4,066.82	4,053.23	-79.28	341.64	7.21	932.30	917.17	151.08	61.597
4,289.00	4,208.82	612.55	-310.21	9.28	4,156.21	4,142.24	-80.03	349.86	7.37	958.85	943.39	151.07	62.003
4,300.00	4,219.46	615.22	-310.98	9.30	4,167.70	4,153.68	-80.10	350.87	7.39	962.01	946.50	151.37	62.039
4,380.00	4,297.13	633.52	-316.60	9.51	4,273.76	4,259.43	-80.12	359.00	7.58	983.32	967.48	153.75	62.054
4,400.00	4,316.63	637.77	-317.98	9.56	4,301.00	4,286.62	-79.85	360.52	7.62	987.96	972.03	154.01	62.003
4,473.00	4,388.08	651.93	-322.68	9.74	4,389.97	4,375.54	-79.34	363.28	7.77	1,002.68	986.45	155.02	61.762
4,500.00	4,414.61	656.70	-324.27	9.80	4,415.93	4,401.50	-79.29	363.69	7.81	1,007.51	991.18	154.71	61.692
4,563.00	4,476.63	667.24	-327.62	9.95	4,477.12	4,462.68	-79.29	364.65	7.91	1,018.17	1,001.61	153.87	61.496
4,600.00	4,513.16	672.88	-329.35	10.03	4,515.73	4,501.29	-79.28	365.22	7.98	1,023.84	1,007.15	154.04	61.324
4,655.00	4,567.64	680.10	-331.57	10.14	4,571.95	4,557.50	-79.11	366.00	8.07	1,031.05	1,014.15	154.23	61.015
4,700.00	4,612.32	685.20	-333.13	10.23	4,612.75	4,598.29	-78.99	366.66	8.14	1,036.25	1,019.20	154.38	60.778
4,747.00	4,659.05	690.02	-334.61	10.33	4,655.73	4,641.26	-78.93	367.53	8.21	1,041.39	1,024.19	154.52	60.517
4,800.00	4,711.86	694.17	-336.13	10.42	4,710.99	4,696.51	-78.85	368.68	8.30	1,046.17	1,028.77	162.64	60.135
4,839.00	4,750.80	695.95	-337.19	10.49	4,751.41	4,736.93	-78.77	369.43	8.37	1,048.63	1,031.09	177.19	59.806
4,900.00	4,811.78	696.85	-338.14	10.57	4,812.07	4,797.57	-78.54	370.62	8.47	1,050.57	1,032.84	-106.08	59.244
4,931.00	4,842.78	696.50	-338.13	10.62	4,843.32	4,828.82	-78.37	371.31	8.53	1,050.64	1,032.81	-25.97	58.921
5,000.00	4,911.75	694.54	-337.59	10.70	4,916.88	4,902.36	-77.91	372.71	8.65	1,049.40	1,031.34	-27.78	58.091
5,023.00	4,934.73	693.63	-337.35	10.73	5,903.59	5,636.90	430.15	390.69	11.05	1,047.24	1,025.77	-57.50	48.763
5,100.00	5,011.59	689.06	-336.40	10.81	5,937.47	5,650.28	461.22	388.93	11.19	994.88	973.06	-66.00	45.586

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-2212B - Plan C - Actual Field Surveys

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft . Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
5,115.00	5,026.54	687.87	-336.20	10.83	5,946.71	5,653.76	469.78	388.51	11.23	984.86	962.95	-67.44	44.954
5,146.00	5,057.22	683.54	-336.20	10.86	5,959.46	5,658.41	481.64	387.99	11.28	964.50	942.37	-87.82	43.581
5,176.00	5,086.39	676.58	-336.48	10.87	5,965.91	5,660.70	487.66	387.74	11.31	945.24	923.02	-88.85	42.528
5,200.00	5,109.28	669.39	-336.66	10.87	5,967.99	5,661.43	489.61	387.67	11.32	930.14	907.88	-92.72	41.788
5,206.00	5,114.93	667.36	-336.72	10.87	5,968.10	5,661.46	489.71	387.67	11.32	926.44	904.18	-93.59	41.617
5,238.00	5,144.15	654.39	-337.45	10.86	5,965.32	5,660.49	487.11	387.77	11.31	907.54	885.35	-100.82	40.885
5,268.00	5,170.13	639.46	-338.68	10.85	5,958.68	5,658.13	480.90	388.02	11.28	891.24	869.15	-103.97	40.355
5,299.00	5,195.92	622.32	-340.13	10.82	5,949.80	5,654.90	472.64	388.38	11.24	875.54	853.55	-104.55	39.823
5,300.00	5,196.73	621.75	-340.18	10.82	5,949.49	5,654.79	472.36	388.39	11.24	875.05	853.06	-104.56	39.806
5,329.00	5,220.11	604.64	-341.48	10.79	5,939.64	5,651.11	463.23	388.83	11.20	861.22	839.33	-104.61	39.343
5,359.00	5,243.93	586.43	-342.58	10.75	5,929.32	5,647.15	453.71	389.32	11.15	847.53	825.70	-103.09	38.821
5,389.00	5,267.55	567.96	-343.56	10.72	5,919.44	5,643.27	444.64	389.81	11.11	834.55	812.80	-103.12	38.373
5,400.00	5,276.11	561.07	-344.00	10.71	5,916.00	5,641.89	441.49	389.99	11.10	830.08	808.37	-103.67	38.234
5,420.00	5,291.47	548.31	-345.03	10.69	5,916.00	5,641.89	441.49	389.99	11.10	822.54	800.88	-105.02	37.977
5,451.00	5,314.73	527.89	-346.79	10.66	5,905.30	5,637.59	431.71	390.59	11.06	811.89	790.31	-104.57	37.624
5,482.00	5,337.45	506.86	-348.40	10.62	5,898.13	5,634.70	425.16	391.03	11.03	802.23	780.71	-104.02	37.277
5,500.00	5,350.53	494.53	-349.31	10.60	5,893.89	5,632.98	421.29	391.30	11.01	797.09	775.60	-103.85	37.095
5,513.00	5,359.98	485.63	-349.99	10.59	5,890.84	5,631.75	418.51	391.50	11.00	793.61	772.15	-103.73	36.974
5,543.00	5,381.68	464.95	-351.26	10.56	5,884.00	5,628.98	412.28	391.98	10.97	786.02	764.59	-102.13	36.682
5,573.00	5,402.95	443.81	-352.09	10.52	5,877.49	5,626.33	406.35	392.46	10.95	779.11	757.74	-101.62	36.448
5,600.00	5,421.44	424.15	-352.46	10.49	5,871.47	5,623.86	400.88	392.96	10.93	773.56	752.22	-100.56	36.254
5,605.00	5,424.79	420.43	-352.47	10.49	5,870.30	5,623.38	399.82	393.06	10.92	772.58	751.25	-100.37	36.221
5,637.00	5,445.64	396.16	-352.23	10.45	5,862.53	5,620.15	392.79	393.76	10.89	766.83	745.55	-99.56	36.039
5,669.00	5,465.87	371.38	-351.62	10.42	5,853.00	5,616.16	384.19	394.72	10.86	762.03	740.80	-98.64	35.896
5,700.00	5,484.83	346.86	-351.02	10.39	5,839.85	5,610.53	372.39	396.11	10.81	758.56	737.39	-98.36	35.843
5,732.00	5,503.39	320.80	-350.50	10.36	5,823.07	5,603.08	357.46	397.87	10.75	756.27	735.18	-97.37	35.850
5,764.00	5,521.35	294.32	-349.90	10.33	5,807.91	5,596.13	344.08	399.48	10.70	755.05	734.01	-96.23	35.879
5,778.76	5,529.47	282.00	-349.64	10.32	5,801.07	5,592.94	338.07	400.21	10.67	754.88	733.86	-96.03	35.909
5,795.00	5,538.21	268.31	-349.46	10.31	5,793.51	5,589.37	331.46	401.02	10.65	755.08	734.09	-95.76	35.960
5,800.00	5,540.84	264.06	-349.43	10.30	5,791.17	5,588.26	329.41	401.28	10.64	755.23	734.24	-95.64	35.979
5,827.00	5,554.39	240.71	-349.35	10.29	5,780.82	5,583.30	320.40	402.41	10.61	756.65	735.69	-95.06	36.092
5,858.00	5,568.43	213.08	-349.71	10.27	5,768.79	5,577.49	309.95	403.81	10.57	759.82	738.87	-94.57	36.279
5,890.00	5,581.05	183.69	-350.47	10.25	5,758.00	5,572.23	300.63	405.12	10.54	764.61	743.68	-93.39	36.533
5,900.00	5,584.66	174.37	-350.72	10.25	5,750.73	5,568.65	294.37	406.04	10.52	766.33	745.42	-92.91	36.644
5,921.00	5,592.06	154.72	-351.27	10.23	5,741.19	5,563.89	286.20	407.28	10.49	770.27	749.37	-92.23	36.862
5,953.00	5,602.81	124.59	-352.04	10.21	5,726.00	5,556.13	273.30	409.31	10.45	776.97	756.10	-90.96	37.227
5,984.00	5,612.02	95.00	-352.61	10.19	5,707.43	5,546.39	257.68	411.83	10.40	784.06	763.23	-89.00	37.632
6,000.00	5,616.27	79.58	-352.87	10.18	5,697.20	5,540.91	249.16	413.20	10.37	787.94	767.12	-88.37	37.846
6,016.00	5,620.39	64.12	-353.19	10.17	5,685.82	5,534.74	239.71	414.70	10.34	792.04	771.24	-87.68	38.079
6,047.00	5,627.67	33.99	-353.66	10.20	5,662.42	5,522.06	220.29	417.75	10.29	800.19	779.45	-85.64	38.583
6,079.00	5,633.60	2.55	-353.73	10.28	5,633.55	5,506.35	196.33	421.33	10.22	808.52	787.87	-83.16	39.146
6,100.00	5,636.74	-18.21	-353.61	10.33	5,612.41	5,494.76	178.82	423.77	10.17	813.92	793.31	-81.95	39.503
6,112.00	5,638.42	-30.09	-353.51	10.37	5,598.70	5,487.20	167.48	425.26	10.14	816.99	796.43	-81.20	39.722
6,200.00	5,647.45	-117.61	-352.98	13.37	5,380.11	5,344.79	5.41	417.49	9.61	835.79	816.05	-69.34	42.338
6,221.00	5,648.72	-138.57	-352.96	14.15	5,370.39	5,336.92	0.15	415.27	9.58	839.51	819.80	-68.60	42.591
6,300.00	5,653.50	-217.42	-352.57	14.20	5,345.23	5,316.15	-12.73	409.35	9.52	856.86	837.18	-67.27	43.545
6,315.00	5,654.56	-232.38	-352.42	14.21	5,341.68	5,313.17	-14.48	408.51	9.51	860.82	841.14	-67.10	43.747
6,400.00	5,659.08	-317.25	-351.76	14.27	5,327.00	5,300.74	-21.51	405.11	9.47	886.90	867.21	-65.52	45.043
6,410.00	5,659.40	-327.25	-351.72	14.27	5,327.00	5,300.74	-21.51	405.11	9.47	890.38	870.68	-65.43	45.199
6,500.00	5,660.22	-417.24	-352.30	14.34	5,310.01	5,286.02	-29.11	401.35	9.43	925.43	905.67	-63.31	46.840
6,504.00	5,660.17	-421.24	-352.36	14.34	5,309.47	5,285.55	-29.34	401.23	9.42	927.14	907.38	-63.22	46.920
6,599.00	5,659.29	-516.22	-353.62	14.41	5,296.00	5,273.56	-34.82	398.45	9.39	971.51	951.54	-62.73	48.644

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-2212B - Plan C - Actual Field Surveys

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
6,600.00	5,659.29	-517.22	-353.63	14.41	5,296.00	5,273.56	-34.82	398.45	9.39	972.01	952.04	-62.72	48.660
6,693.00	5,659.15	-610.17	-356.52	14.48	5,280.75	5,259.78	-40.59	395.39	9.35	1,023.18	1,002.93	-61.29	50.541
6,700.00	5,659.17	-617.16	-356.89	14.49	5,279.49	5,258.64	-41.05	395.14	9.35	1,027.36	1,007.10	-61.18	50.695
6,788.00	5,659.67	-704.93	-363.18	14.56	5,266.00	5,246.32	-45.85	392.43	9.32	1,083.38	1,062.84	-59.81	52.749
6,800.00	5,659.76	-716.89	-364.20	14.58	5,266.00	5,246.32	-45.85	392.43	9.32	1,091.44	1,070.87	-59.85	53.057
6,883.00	5,659.59	-799.71	-369.49	14.66	5,249.43	5,231.07	-51.45	389.18	9.28	1,147.40	1,126.70	-59.10	55.426
6,900.00	5,659.40	-816.70	-370.16	14.68	5,246.80	5,228.64	-52.32	388.68	9.27	1,158.92	1,138.16	-59.17	55.842
6,977.00	5,658.30	-893.68	-371.02	14.77	5,235.00	5,217.70	-56.14	386.47	9.25	1,211.10	1,190.09	-59.53	57.668
7,000.00	5,657.93	-916.67	-370.73	14.80	5,235.00	5,217.70	-56.14	386.47	9.25	1,226.80	1,205.69	-59.60	58.099
7,072.00	5,656.94	-988.66	-369.82	14.90	5,235.00	5,217.70	-56.14	386.47	9.25	1,277.45	1,255.97	-59.81	59.481
7,100.00	5,656.59	-1,016.66	-369.60	14.94	5,235.00	5,217.70	-56.14	386.47	9.25	1,297.78	1,276.18	-59.42	60.087
7,166.00	5,655.60	-1,082.65	-370.14	15.07	5,235.00	5,217.70	-56.14	386.47	9.25	1,347.34	1,325.46	-58.43	61.600
7,200.00	5,655.12	-1,116.64	-370.53	15.15	5,235.00	5,217.70	-56.14	386.47	9.25	1,373.48	1,351.36	-59.35	62.095
7,261.00	5,654.73	-1,177.63	-369.85	15.33	5,220.98	5,204.52	-60.30	384.08	9.21	1,420.16	1,397.69	-60.17	63.216
7,300.00	5,654.63	-1,216.63	-369.39	15.47	5,219.38	5,203.01	-60.73	383.84	9.21	1,450.76	1,428.16	-58.90	64.191
7,355.00	5,654.34	-1,271.61	-370.61	15.70	5,204.00	5,188.24	-64.49	381.72	9.17	1,495.86	1,473.21	-56.08	66.061
7,400.00	5,654.03	-1,316.56	-372.60	15.92	5,204.00	5,188.24	-64.49	381.72	9.17	1,533.25	1,510.37	-55.83	67.032
7,450.00	5,653.67	-1,366.50	-375.06	16.19	5,204.00	5,188.24	-64.49	381.72	9.17	1,575.37	1,552.24	-55.55	68.124
7,500.00	5,653.42	-1,416.47	-376.66	16.49	5,204.00	5,188.24	-64.49	381.72	9.17	1,617.59	1,593.96	-57.88	68.456
7,545.00	5,653.41	-1,461.47	-376.41	16.76	5,204.00	5,188.24	-64.49	381.72	9.17	1,655.27	1,631.20	-59.81	68.785
7,600.00	5,653.58	-1,516.46	-375.76	17.12	5,204.00	5,188.24	-64.49	381.72	9.17	1,701.69	1,677.35	-58.99	69.891
7,639.00	5,653.80	-1,555.46	-376.06	17.37	5,204.00	5,188.24	-64.49	381.72	9.17	1,735.28	1,710.74	-58.35	70.724
7,700.00	5,654.16	-1,616.43	-378.07	17.79	5,204.00	5,188.24	-64.49	381.72	9.17	1,788.87	1,764.18	-56.28	72.430
7,734.00	5,654.33	-1,650.36	-380.10	18.03	5,204.00	5,188.24	-64.49	381.72	9.17	1,819.29	1,794.53	-54.98	73.503
7,800.00	5,654.58	-1,716.12	-385.69	18.51	5,204.00	5,188.24	-64.49	381.72	9.17	1,879.23	1,854.39	-52.56	75.657
7,828.00	5,654.67	-1,743.96	-388.68	18.71	5,204.00	5,188.24	-64.49	381.72	9.17	1,904.97	1,880.12	-51.41	76.680
7,900.00	5,655.24	-1,815.84	-391.45	19.23	5,204.00	5,188.24	-64.49	381.72	9.17	1,969.85	1,943.22	-62.21	73.964
7,923.00	5,655.59	-1,838.79	-390.06	19.40	5,204.00	5,188.24	-64.49	381.72	9.17	1,989.83	1,962.83	-64.63	73.717
8,000.00	5,656.61	-1,915.59	-384.67	19.98	5,204.00	5,188.24	-64.49	381.72	9.17	2,056.82	2,029.47	-62.73	75.213
8,018.00	5,656.78	-1,933.57	-383.73	20.11	5,204.00	5,188.24	-64.49	381.72	9.17	2,072.70	2,045.28	-62.25	75.594
8,100.00	5,657.14	-2,015.50	-380.45	20.76	5,191.21	5,175.82	-67.18	380.30	9.15	2,145.58	2,117.90	-59.82	77.539
8,113.00	5,657.14	-2,028.49	-380.07	20.86	5,190.74	5,175.37	-67.27	380.25	9.15	2,157.25	2,129.53	-59.51	77.826
8,200.00	5,654.81	-2,115.43	-378.10	21.56	5,187.32	5,172.02	-67.95	379.92	9.14	2,235.39	2,208.12	-53.52	81.948
8,205.00	5,654.54	-2,120.42	-378.01	21.60	5,187.10	5,171.81	-67.99	379.90	9.14	2,239.88	2,212.63	-53.19	82.203
8,244.17	5,653.36	-2,159.56	-377.00	21.82	5,174.00	5,158.98	-70.40	378.85	9.11	2,275.38	2,246.97	-58.86	80.092
8,300.00	5,653.11	-2,215.35	-375.05	21.97	5,174.00	5,158.98	-70.40	378.85	9.11	2,326.02	2,297.49	-58.86	81.514
8,389.17	5,652.72	-2,304.47	-371.94	22.24	5,174.00	5,158.98	-70.40	378.85	9.11	2,407.40	2,378.64	-58.86	83.713
8,400.00	5,652.68	-2,315.29	-371.58	22.27	5,174.00	5,158.98	-70.40	378.85	9.11	2,417.32	2,388.54	-58.78	83.991
8,439.76	5,652.67	-2,355.04	-370.59	22.40	5,174.00	5,158.98	-70.40	378.85	9.11	2,453.98	2,425.11	-58.44	85.019
8,500.00	5,652.79	-2,415.27	-369.47	22.60	5,174.00	5,158.98	-70.40	378.85	9.11	2,509.84	2,480.80	-58.44	86.442
8,600.00	5,652.99	-2,515.25	-367.63	22.97	5,174.00	5,158.98	-70.40	378.85	9.11	2,603.00	2,573.65	-58.44	88.697
8,700.00	5,653.20	-2,615.23	-365.79	23.38	5,174.00	5,158.98	-70.40	378.85	9.11	2,696.65	2,666.96	-58.44	90.824
8,800.00	5,653.40	-2,715.22	-363.94	23.82	5,174.00	5,158.98	-70.40	378.85	9.11	2,790.75	2,760.68	-58.44	92.826
8,900.00	5,653.60	-2,815.20	-362.10	24.29	5,174.00	5,158.98	-70.40	378.85	9.11	2,885.24	2,854.77	-58.44	94.703
9,000.00	5,653.81	-2,915.18	-360.25	24.79	5,174.00	5,158.98	-70.40	378.85	9.11	2,980.09	2,949.19	-58.44	96.460
9,100.00	5,654.01	-3,015.16	-358.41	25.32	5,174.00	5,158.98	-70.40	378.85	9.11	3,075.27	3,043.92	-58.44	98.101
9,200.00	5,654.22	-3,115.15	-356.56	25.88	5,174.00	5,158.98	-70.40	378.85	9.11	3,170.74	3,138.92	-58.44	99.630
9,300.00	5,654.42	-3,215.13	-354.72	26.46	5,160.05	5,145.23	-72.63	377.96	9.08	3,266.24	3,234.10	-57.70	101.610
9,400.00	5,654.62	-3,315.11	-352.87	27.06	5,158.36	5,143.57	-72.88	377.86	9.08	3,362.17	3,329.53	-57.61	103.012
9,500.00	5,654.83	-3,415.10	-351.03	27.69	5,156.75	5,141.98	-73.10	377.77	9.08	3,458.33	3,425.17	-57.52	104.318
9,584.92	5,655.00	-3,500.00	-349.46	28.23	5,143.00	5,128.35	-74.81	377.08	9.05	3,540.34	3,506.91	-56.80	105.902
9,600.00	5,655.06	-3,515.08	-349.21	28.32	5,143.00	5,128.35	-74.81	377.08	9.05	3,554.88	3,521.34	-56.90	105.981

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-2212B - Plan C - Actual Field Surveys

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
9,653.95	5,655.66	-3,569.03	-348.84	28.63	5,143.00	5,128.35	-74.81	377.08	9.05	3,607.13	3,573.19	-57.31	106.292
9,700.00	5,656.44	-3,615.07	-348.86	28.91	5,143.00	5,128.35	-74.81	377.08	9.05	3,651.86	3,617.68	-57.31	106.844
9,800.00	5,658.14	-3,715.05	-348.90	29.59	5,143.00	5,128.35	-74.81	377.08	9.05	3,749.12	3,714.36	-57.31	107.867
9,900.00	5,659.84	-3,815.04	-348.95	30.28	5,143.00	5,128.35	-74.81	377.08	9.05	3,846.52	3,811.17	-57.31	108.814
10,000.00	5,661.54	-3,915.02	-348.99	30.99	5,143.00	5,128.35	-74.81	377.08	9.05	3,944.05	3,908.09	-57.31	109.692
10,100.00	5,663.24	-4,015.01	-349.03	31.72	5,143.00	5,128.35	-74.81	377.08	9.05	4,041.69	4,005.12	-57.31	110.505
10,200.00	5,664.95	-4,114.99	-349.08	32.46	5,143.00	5,128.35	-74.81	377.08	9.05	4,139.46	4,102.25	-57.31	111.258
10,300.00	5,666.65	-4,214.98	-349.12	33.21	5,143.00	5,128.35	-74.81	377.08	9.05	4,237.32	4,199.47	-57.31	111.956
10,400.00	5,668.35	-4,314.97	-349.16	33.97	5,143.00	5,128.35	-74.81	377.08	9.05	4,335.28	4,296.78	-57.31	112.601
10,500.00	5,670.05	-4,414.95	-349.21	34.74	5,143.00	5,128.35	-74.81	377.08	9.05	4,433.34	4,394.17	-57.31	113.199
10,600.00	5,671.75	-4,514.94	-349.25	35.53	5,143.00	5,128.35	-74.81	377.08	9.05	4,531.48	4,491.64	-57.31	113.753
10,700.00	5,673.45	-4,614.92	-349.29	36.32	5,143.00	5,128.35	-74.81	377.08	9.05	4,629.70	4,589.18	-57.31	114.267
10,800.00	5,675.15	-4,714.91	-349.34	37.12	5,143.00	5,128.35	-74.81	377.08	9.05	4,727.99	4,686.78	-57.31	114.742
10,900.00	5,676.85	-4,814.89	-349.38	37.93	5,143.00	5,128.35	-74.81	377.08	9.05	4,826.35	4,784.45	-57.31	115.183
11,000.00	5,678.55	-4,914.88	-349.42	38.75	5,143.00	5,128.35	-74.81	377.08	9.05	4,924.78	4,882.18	-57.31	115.592
11,085.13	5,680.00	-5,000.00	-349.46	39.46	5,143.00	5,128.35	-74.81	377.08	9.05	5,008.63	4,965.42	-57.31	115.918
11,100.00	5,680.21	-5,014.86	-349.47	39.58	5,143.00	5,128.35	-74.81	377.08	9.05	5,023.27	4,980.42	-55.94	117.239
11,120.18	5,680.38	-5,035.04	-349.47	39.75	5,143.00	5,128.35	-74.81	377.08	9.05	5,043.13	5,000.78	-54.13	119.080
11,200.00	5,680.76	-5,114.86	-349.47	40.41	5,143.00	5,128.35	-74.81	377.08	9.05	5,121.70	5,078.80	-54.13	119.376
11,300.00	5,681.24	-5,214.86	-349.47	41.25	5,143.00	5,128.35	-74.81	377.08	9.05	5,220.19	5,176.58	-54.13	119.721
11,400.00	5,681.72	-5,314.86	-349.47	42.10	5,143.00	5,128.35	-74.81	377.08	9.05	5,318.73	5,274.42	-54.13	120.042
11,500.00	5,682.20	-5,414.86	-349.46	42.95	5,143.00	5,128.35	-74.81	377.08	9.05	5,417.32	5,372.31	-54.13	120.341
11,600.00	5,682.68	-5,514.86	-349.46	43.81	5,143.00	5,128.35	-74.81	377.08	9.05	5,515.97	5,470.24	-54.13	120.618
11,700.00	5,683.16	-5,614.86	-349.46	44.67	5,143.00	5,128.35	-74.81	377.08	9.05	5,614.66	5,568.21	-54.13	120.877
11,800.00	5,683.64	-5,714.86	-349.46	45.54	5,143.00	5,128.35	-74.81	377.08	9.05	5,713.40	5,666.23	-54.13	121.117
11,900.00	5,684.11	-5,814.85	-349.46	46.41	5,143.00	5,128.35	-74.81	377.08	9.05	5,812.18	5,764.29	-54.13	121.341
12,000.00	5,684.59	-5,914.85	-349.46	47.29	5,143.00	5,128.35	-74.81	377.08	9.05	5,911.01	5,862.38	-54.13	121.550
12,085.15	5,685.00	-6,000.00	-349.46	48.03	5,143.00	5,128.35	-74.81	377.08	9.05	5,995.18	5,945.93	-54.13	121.717
12,100.00	5,685.03	-6,014.85	-349.46	48.17	5,143.00	5,128.35	-74.81	377.08	9.05	6,009.87	5,961.19	-52.57	123.477
12,198.86	5,683.29	-6,113.69	-349.46	49.04	5,143.00	5,128.35	-74.81	377.08	9.05	6,107.42	6,062.47	-43.62	135.872
12,200.00	5,683.25	-6,114.83	-349.46	49.05	5,143.00	5,128.35	-74.81	377.08	9.05	6,108.54	6,063.58	-43.62	135.874
12,300.00	5,679.76	-6,214.77	-349.46	49.94	5,143.00	5,128.35	-74.81	377.08	9.05	6,207.07	6,161.46	-43.62	136.103
12,400.00	5,676.27	-6,314.71	-349.46	50.83	5,143.00	5,128.35	-74.81	377.08	9.05	6,305.64	6,259.38	-43.62	136.317
12,500.00	5,672.78	-6,414.65	-349.46	51.72	5,143.00	5,128.35	-74.81	377.08	9.05	6,404.26	6,357.35	-43.62	136.519
12,600.00	5,669.29	-6,514.59	-349.46	52.62	5,143.00	5,128.35	-74.81	377.08	9.05	6,502.92	6,455.35	-43.62	136.708
12,700.00	5,665.80	-6,614.53	-349.46	53.52	5,143.00	5,128.35	-74.81	377.08	9.05	6,601.62	6,553.39	-43.62	136.886
12,800.00	5,662.31	-6,714.47	-349.46	54.42	5,143.00	5,128.35	-74.81	377.08	9.05	6,700.36	6,651.47	-43.62	137.054
12,900.00	5,658.82	-6,814.41	-349.46	55.33	5,143.00	5,128.35	-74.81	377.08	9.05	6,799.13	6,749.58	-43.62	137.212
13,000.00	5,655.33	-6,914.34	-349.46	56.23	5,143.00	5,128.35	-74.81	377.08	9.05	6,897.94	6,847.72	-43.62	137.361
13,100.00	5,651.84	-7,014.28	-349.46	57.14	5,143.00	5,128.35	-74.81	377.08	9.05	6,996.79	6,945.90	-43.62	137.501
13,117.21	5,651.24	-7,031.48	-349.46	57.30	5,143.00	5,128.35	-74.81	377.08	9.05	7,013.80	6,962.80	-43.62	137.525

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W - Razor #27K-3408B - Existing Well - Existing Well_Customer Supplied Surveys

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
100.00	100.00	0.04	-0.03	3.33	69.38	69.38	-22.56	-1,254.42	5.00	1,254.59	1,245.30	-53.87	135.004
177.00	177.00	0.14	-0.10	3.33	142.57	142.57	-22.64	-1,254.74	5.00	1,254.87	1,245.57	-53.88	134.957
200.00	200.00	0.19	-0.13	3.34	164.46	164.45	-22.67	-1,254.88	5.00	1,254.99	1,245.69	-76.20	134.915
268.00	268.00	0.65	-0.17	3.35	233.46	233.46	-23.13	-1,255.31	5.01	1,255.39	1,246.07	-88.98	134.654
300.00	300.00	0.97	-0.19	3.36	266.53	266.52	-23.59	-1,255.49	5.02	1,255.56	1,246.22	-86.79	134.474
359.00	358.99	1.58	-0.26	3.38	329.66	329.64	-24.80	-1,255.69	5.03	1,255.71	1,246.34	-83.17	134.027
400.00	399.99	2.02	-0.35	3.39	370.99	370.96	-25.78	-1,255.72	5.04	1,255.68	1,246.29	-75.93	133.650
451.00	450.99	2.56	-0.54	3.42	419.70	419.66	-26.83	-1,255.82	5.05	1,255.63	1,246.20	-67.46	133.126
500.00	499.98	3.08	-0.76	3.44	470.51	470.46	-27.71	-1,255.98	5.07	1,255.59	1,246.12	-69.56	132.552
544.00	543.98	3.57	-0.95	3.47	519.41	519.35	-28.04	-1,255.97	5.08	1,255.42	1,245.91	-71.35	131.956
600.00	599.98	4.08	-1.19	3.50	579.12	579.07	-27.90	-1,255.76	5.11	1,254.99	1,245.42	-58.60	131.141
635.00	634.98	4.28	-1.35	3.52	615.99	615.94	-27.73	-1,255.56	5.12	1,254.64	1,245.03	-43.25	130.589
700.00	699.98	4.48	-1.60	3.56	685.51	685.45	-27.17	-1,255.01	5.16	1,253.87	1,244.18	-34.04	129.481
727.00	726.98	4.52	-1.68	3.58	714.44	714.38	-26.83	-1,254.71	5.17	1,253.51	1,243.79	-24.85	128.991
800.00	799.98	4.49	-1.93	3.64	794.71	794.63	-25.32	-1,253.59	5.22	1,252.20	1,242.38	22.56	127.503
819.00	818.98	4.44	-2.02	3.66	814.66	814.57	-24.81	-1,253.25	5.23	1,251.77	1,241.92	27.57	127.099
900.00	899.98	4.28	-2.30	3.73	894.00	893.87	-22.97	-1,251.91	5.28	1,250.08	1,240.10	27.12	125.356
911.00	910.97	4.27	-2.32	3.74	905.75	905.62	-22.73	-1,251.72	5.29	1,249.87	1,239.88	26.89	125.107
993.00	992.97	4.89	-2.69	3.82	999.12	998.96	-21.70	-1,249.68	5.35	1,247.71	1,237.57	-66.00	123.071
1,000.00	999.97	5.00	-2.74	3.83	1,006.70	1,006.54	-21.68	-1,249.48	5.36	1,247.47	1,237.32	-68.28	122.888
1,087.00	1,086.93	7.57	-3.42	3.93	1,098.44	1,098.24	-22.17	-1,246.75	5.43	1,244.28	1,233.96	-80.25	120.566
1,100.00	1,099.91	8.13	-3.53	3.94	1,110.85	1,110.63	-22.33	-1,246.37	5.44	1,243.79	1,233.44	-82.07	120.223
1,176.00	1,175.78	12.54	-3.97	4.03	1,182.59	1,182.33	-23.71	-1,244.26	5.51	1,241.28	1,230.78	-88.56	118.234
1,200.00	1,199.72	14.29	-4.09	4.06	1,204.10	1,203.83	-24.23	-1,243.68	5.53	1,240.58	1,230.03	-87.02	117.617
1,268.00	1,267.49	19.86	-4.76	4.15	1,265.19	1,264.88	-25.94	-1,242.26	5.58	1,238.59	1,227.90	-83.68	115.852
1,300.00	1,299.35	22.82	-5.26	4.19	1,297.03	1,296.70	-26.96	-1,241.60	5.61	1,237.58	1,226.81	-82.02	114.966
1,360.00	1,359.01	29.01	-6.57	4.28	1,356.48	1,356.09	-29.16	-1,240.33	5.67	1,235.37	1,224.47	-79.68	113.273
1,400.00	1,398.73	33.60	-7.76	4.33	1,394.89	1,394.46	-30.67	-1,239.53	5.71	1,233.65	1,222.65	-77.40	112.133
1,451.00	1,449.28	40.00	-9.75	4.41	1,443.79	1,443.32	-32.53	-1,238.56	5.77	1,231.13	1,220.00	-75.13	110.655
1,500.00	1,497.77	46.65	-12.21	4.48	1,491.05	1,490.54	-34.27	-1,237.66	5.82	1,228.28	1,217.03	-72.09	109.203
1,542.00	1,539.25	52.69	-14.82	4.55	1,531.49	1,530.94	-35.75	-1,236.93	5.86	1,225.45	1,214.29	-69.93	109.850
1,600.00	1,596.52	60.92	-18.80	4.60	1,589.33	1,588.73	-37.85	-1,235.88	5.90	1,221.23	1,210.09	-67.93	109.657
1,636.00	1,632.11	65.72	-21.34	4.63	1,625.58	1,624.95	-39.20	-1,235.18	5.92	1,218.53	1,207.34	-66.54	108.903
1,700.00	1,695.37	74.10	-26.29	4.64	1,689.35	1,688.67	-41.65	-1,233.89	5.95	1,213.31	1,202.08	-63.61	108.084
1,728.00	1,723.02	77.79	-28.69	4.65	1,716.68	1,715.97	-42.74	-1,233.33	5.96	1,210.82	1,199.59	-62.44	107.800
1,800.00	1,793.94	87.89	-35.93	4.67	1,790.87	1,790.07	-45.86	-1,231.74	5.97	1,203.49	1,192.24	-59.68	106.923
1,819.00	1,812.59	90.74	-38.13	4.68	1,812.02	1,811.20	-46.77	-1,231.21	5.97	1,201.25	1,189.98	-59.15	106.655
1,900.00	1,891.68	105.13	-48.01	4.72	1,899.65	1,898.69	-50.64	-1,228.51	6.00	1,191.22	1,179.88	-67.00	105.136
1,911.00	1,902.35	107.40	-49.38	4.73	1,911.27	1,910.30	-51.15	-1,228.10	6.00	1,189.85	1,178.51	-67.89	104.925
2,000.00	1,988.11	127.83	-61.59	4.79	1,985.91	1,984.82	-54.37	-1,225.55	6.03	1,178.37	1,166.95	-69.16	103.166
2,002.00	1,990.02	128.33	-61.89	4.80	1,987.37	1,986.29	-54.43	-1,225.51	6.03	1,178.12	1,166.69	-69.19	103.127
2,094.00	2,078.12	150.97	-75.65	4.89	2,060.92	2,059.76	-57.47	-1,224.13	6.06	1,167.27	1,155.73	-69.52	101.155
2,100.00	2,083.87	152.42	-76.55	4.89	2,066.48	2,065.31	-57.71	-1,224.04	6.06	1,166.61	1,155.06	-69.54	101.020
2,185.00	2,165.55	172.32	-89.10	4.99	2,144.58	2,143.33	-61.13	-1,222.91	6.10	1,157.60	1,145.92	-69.65	99.132
2,200.00	2,180.01	175.69	-91.28	5.00	2,158.01	2,156.74	-61.72	-1,222.73	6.10	1,156.10	1,144.40	-69.54	98.794
2,277.00	2,254.41	192.13	-102.30	5.10	2,230.26	2,228.93	-64.84	-1,221.96	6.14	1,148.77	1,136.93	-68.88	97.071
2,300.00	2,276.71	196.79	-105.54	5.13	2,256.07	2,254.71	-65.94	-1,221.63	6.15	1,146.61	1,134.73	-69.00	96.517
2,368.00	2,342.75	210.01	-114.87	5.22	2,329.16	2,327.72	-69.02	-1,220.26	6.20	1,140.12	1,128.10	-69.24	94.886
2,400.00	2,373.80	216.29	-119.37	5.27	2,360.62	2,359.15	-70.29	-1,219.59	6.22	1,136.99	1,124.91	-69.72	94.120
2,459.00	2,430.64	229.13	-128.60	5.36	2,420.86	2,419.33	-72.57	-1,218.24	6.26	1,130.75	1,118.55	-70.74	92.648
2,500.00	2,469.97	238.48	-135.45	5.43	2,465.69	2,464.12	-74.14	-1,217.04	6.29	1,126.07	1,113.76	-70.44	91.505

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W - Razor #27K-3408B - Existing Well - Existing Well_Customer Supplied Surveys

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
2,551.00	2,518.97	249.71	-144.02	5.52	2,518.34	2,516.71	-75.88	-1,215.37	6.33	1,120.01	1,107.57	-69.96	90.080
2,600.00	2,566.13	260.20	-152.23	5.61	2,566.74	2,565.05	-77.53	-1,213.71	6.37	1,114.22	1,101.65	-70.61	88.685
2,642.00	2,606.60	269.03	-159.16	5.68	2,603.76	2,602.03	-78.81	-1,212.42	6.40	1,109.45	1,096.78	-71.10	87.547
2,700.00	2,662.37	281.98	-168.45	5.79	2,652.07	2,650.30	-80.33	-1,211.05	6.44	1,103.86	1,091.02	-76.55	85.993
2,733.00	2,693.94	290.09	-173.55	5.86	2,680.15	2,678.35	-81.12	-1,210.43	6.46	1,101.38	1,088.45	-79.39	85.180
2,800.00	2,758.00	306.84	-183.78	6.00	2,740.03	2,738.20	-82.75	-1,209.28	6.51	1,097.03	1,083.91	-79.50	83.602
2,825.00	2,781.94	312.96	-187.61	6.05	2,762.48	2,760.65	-83.36	-1,208.91	6.53	1,095.51	1,082.32	-79.54	83.027
2,900.00	2,854.15	330.61	-197.49	6.21	2,839.40	2,837.55	-84.45	-1,207.87	6.60	1,092.36	1,078.93	-86.73	81.341
2,917.00	2,870.61	334.46	-199.29	6.24	2,857.17	2,855.32	-84.42	-1,207.69	6.61	1,092.01	1,078.52	-88.58	81.000
3,000.00	2,951.33	352.00	-207.39	6.41	2,946.16	2,944.30	-83.69	-1,206.60	6.69	1,090.25	1,076.53	-88.38	79.415
3,008.00	2,959.14	353.58	-208.14	6.43	2,954.60	2,952.74	-83.59	-1,206.47	6.70	1,090.05	1,076.30	-88.33	79.259
3,100.00	3,049.28	369.97	-216.48	6.60	3,049.08	3,047.17	-84.01	-1,204.02	6.79	1,087.18	1,073.15	-86.39	77.502
3,175.90	3,123.76	383.18	-222.55	6.75	3,116.19	3,114.23	-85.65	-1,201.80	6.86	1,085.84	1,071.59	-94.58	76.216
3,192.00	3,139.53	386.26	-223.69	6.78	3,130.68	3,128.70	-86.13	-1,201.33	6.88	1,085.90	1,071.61	-96.14	75.974
3,200.00	3,147.36	387.81	-224.25	6.80	3,138.68	3,136.70	-86.40	-1,201.06	6.89	1,085.96	1,071.64	-96.21	75.841
3,283.00	3,228.60	403.78	-230.04	6.96	3,220.00	3,217.91	-89.36	-1,198.16	6.98	1,086.61	1,072.02	-96.91	74.502
3,300.00	3,245.24	407.04	-231.22	7.00	3,233.85	3,231.73	-89.90	-1,197.66	7.00	1,086.80	1,072.16	-97.22	74.249
3,375.00	3,318.68	421.38	-236.36	7.15	3,289.60	3,287.42	-92.26	-1,196.15	7.07	1,088.59	1,073.73	-98.48	73.250
3,400.00	3,343.16	426.15	-238.07	7.20	3,312.00	3,309.79	-93.29	-1,195.78	7.10	1,089.53	1,074.58	-98.30	72.917
3,467.00	3,408.76	438.91	-242.86	7.34	3,371.66	3,369.38	-96.09	-1,194.98	7.17	1,092.20	1,077.04	-97.82	72.058
3,500.00	3,441.06	445.20	-245.33	7.41	3,403.47	3,401.16	-97.58	-1,194.55	7.21	1,093.53	1,078.26	-97.78	71.625
3,558.00	3,497.80	456.33	-249.84	7.53	3,458.98	3,456.60	-100.25	-1,193.80	7.28	1,095.91	1,080.45	-97.74	70.868
3,600.00	3,538.88	464.38	-253.24	7.62	3,499.20	3,496.76	-102.25	-1,193.23	7.33	1,097.67	1,082.06	-97.45	70.320
3,649.00	3,586.82	473.66	-257.33	7.73	3,547.32	3,544.83	-104.30	-1,192.75	7.40	1,099.67	1,083.89	-97.09	69.689
3,700.00	3,636.73	483.21	-261.68	7.85	3,597.24	3,594.73	-105.74	-1,192.64	7.46	1,101.71	1,085.76	-97.32	69.037
3,741.00	3,676.87	490.81	-265.20	7.94	3,635.80	3,633.28	-106.70	-1,192.68	7.51	1,103.41	1,087.32	-97.47	68.541
3,800.00	3,734.66	501.48	-270.45	8.07	3,692.79	3,690.25	-108.18	-1,192.81	7.58	1,105.77	1,089.47	-95.79	67.816
3,832.00	3,766.02	507.10	-273.43	8.15	3,726.49	3,723.94	-109.14	-1,192.76	7.63	1,106.86	1,090.43	-94.87	67.396
3,900.00	3,832.67	518.90	-279.93	8.30	3,798.97	3,796.38	-111.47	-1,192.16	7.72	1,108.88	1,092.21	-95.56	66.510
3,924.00	3,856.19	523.08	-282.23	8.35	3,825.15	3,822.54	-112.31	-1,191.80	7.76	1,109.54	1,092.78	-95.81	66.194
4,000.00	3,930.33	538.42	-288.78	8.53	3,897.67	3,895.01	-114.53	-1,190.64	7.86	1,113.45	1,096.43	-106.99	65.448
4,015.00	3,944.87	541.94	-289.89	8.57	3,910.30	3,907.64	-114.94	-1,190.48	7.88	1,114.74	1,097.68	-108.74	65.356
4,100.00	4,026.80	563.67	-296.14	8.78	3,985.13	3,982.43	-117.46	-1,189.85	7.99	1,123.81	1,106.46	-110.77	64.769
4,106.00	4,032.55	565.30	-296.59	8.80	3,990.79	3,988.08	-117.66	-1,189.81	8.00	1,124.53	1,107.16	-110.91	64.732
4,197.00	4,120.02	589.46	-303.49	9.04	4,076.76	4,073.99	-120.71	-1,189.18	8.12	1,135.40	1,117.67	-111.26	64.032
4,200.00	4,122.91	590.23	-303.72	9.05	4,079.59	4,076.83	-120.81	-1,189.16	8.13	1,135.76	1,118.01	-111.32	64.010
4,289.00	4,208.82	612.55	-310.21	9.29	4,166.33	4,163.51	-123.81	-1,188.61	8.26	1,146.36	1,128.27	-113.09	63.371
4,300.00	4,219.46	615.22	-310.98	9.32	4,177.69	4,174.86	-124.18	-1,188.53	8.27	1,147.65	1,129.52	-113.04	63.287
4,380.00	4,297.13	633.52	-316.60	9.53	4,261.00	4,258.13	-126.80	-1,187.71	8.40	1,156.31	1,137.85	-112.45	62.644
4,400.00	4,316.63	637.77	-317.98	9.57	4,282.08	4,279.20	-127.38	-1,187.47	8.43	1,158.26	1,139.72	-112.63	62.485
4,473.00	4,388.08	651.93	-322.68	9.75	4,361.08	4,358.17	-129.19	-1,186.49	8.55	1,164.62	1,145.79	-113.09	61.866
4,500.00	4,414.61	656.70	-324.27	9.82	4,391.03	4,388.11	-129.71	-1,186.06	8.59	1,166.67	1,147.75	-113.82	61.645
4,563.00	4,476.63	667.24	-327.62	9.96	4,458.92	4,455.99	-130.50	-1,185.04	8.70	1,171.15	1,151.99	-115.58	61.130
4,600.00	4,513.16	672.88	-329.35	10.04	4,498.48	4,495.55	-130.67	-1,184.52	8.75	1,173.49	1,154.20	-115.97	60.823
4,655.00	4,567.64	680.10	-331.57	10.16	4,544.93	4,541.99	-131.06	-1,183.83	8.83	1,176.58	1,157.10	-116.41	60.397
4,700.00	4,612.32	685.20	-333.13	10.24	4,582.20	4,579.24	-131.97	-1,183.06	8.89	1,179.07	1,159.45	-116.67	60.083
4,747.00	4,659.05	690.02	-334.61	10.34	4,628.48	4,625.47	-133.57	-1,181.92	8.96	1,181.65	1,161.86	-116.97	59.719
4,800.00	4,711.86	694.17	-336.13	10.43	4,684.50	4,681.45	-135.38	-1,180.49	9.06	1,183.68	1,163.71	-109.39	59.262
4,839.00	4,750.80	695.95	-337.19	10.50	4,724.80	4,721.71	-136.62	-1,179.40	9.12	1,184.27	1,164.16	-95.10	58.897
4,900.00	4,811.78	696.85	-338.14	10.59	4,777.00	4,773.87	-138.23	-1,177.87	9.21	1,184.33	1,164.05	-18.50	58.398
4,931.00	4,842.78	696.50	-338.13	10.63	4,808.44	4,805.28	-139.28	-1,177.04	9.27	1,184.23	1,163.86	61.61	58.117
4,939.34	4,851.12	696.33	-338.08	10.64	4,814.76	4,811.59	-139.50	-1,176.90	9.28	1,184.23	1,163.83	61.27	58.058

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W - Razor #27K-3408B - Existing Well - Existing Well_Customer Supplied Surveys

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft . Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
5,000.00	4,911.75	694.54	-337.59	10.71	4,869.00	4,865.79	-141.65	-1,176.13	9.37	1,184.37	1,163.81	59.90	57.597
5,004.33	4,916.08	694.38	-337.54	10.72	4,869.00	4,865.79	-141.65	-1,176.13	9.37	1,184.36	1,163.79	59.85	57.582
5,023.00	4,934.73	693.63	-337.35	10.74	4,882.03	4,878.81	-142.20	-1,176.04	9.39	1,184.42	1,163.81	59.64	57.461
5,100.00	5,011.59	689.06	-336.40	10.83	4,964.74	4,961.45	-145.48	-1,175.33	9.53	1,183.55	1,162.72	55.20	56.816
5,115.00	5,026.54	687.87	-336.20	10.84	4,979.62	4,976.32	-146.03	-1,175.19	9.56	1,183.15	1,162.28	54.77	56.688
5,146.00	5,057.22	683.54	-336.20	10.87	5,010.21	5,006.88	-147.15	-1,174.92	9.61	1,180.70	1,159.88	41.63	56.722
5,176.00	5,086.39	676.58	-336.48	10.88	5,039.39	5,036.04	-148.21	-1,174.69	9.66	1,176.19	1,155.39	45.22	56.567
5,200.00	5,109.28	669.39	-336.66	10.88	5,061.49	5,058.13	-149.03	-1,174.50	9.70	1,171.49	1,150.78	45.38	56.566
5,206.00	5,114.93	667.36	-336.72	10.88	5,066.65	5,063.28	-149.26	-1,174.43	9.71	1,170.14	1,149.45	45.48	56.567
5,238.00	5,144.15	654.39	-337.45	10.88	5,093.69	5,090.27	-150.77	-1,173.80	9.76	1,161.24	1,140.86	44.80	56.962
5,268.00	5,170.13	639.46	-338.68	10.86	5,118.26	5,114.75	-152.60	-1,172.86	9.81	1,150.66	1,130.48	45.66	57.017
5,299.00	5,195.92	622.32	-340.13	10.83	5,145.00	5,141.34	-155.11	-1,171.43	9.86	1,138.51	1,118.38	47.32	56.575
5,300.00	5,196.73	621.75	-340.18	10.83	5,145.00	5,141.34	-155.11	-1,171.43	9.86	1,138.10	1,117.98	47.37	56.564
5,329.00	5,220.11	604.64	-341.48	10.80	5,165.61	5,161.73	-157.62	-1,169.85	9.91	1,126.15	1,106.06	49.11	56.047
5,359.00	5,243.93	586.43	-342.58	10.76	5,201.36	5,196.69	-163.62	-1,165.53	10.00	1,113.66	1,093.42	50.80	55.035
5,389.00	5,267.55	567.96	-343.56	10.73	5,236.00	5,229.97	-171.02	-1,159.40	10.11	1,100.81	1,080.54	51.30	54.297
5,400.00	5,276.11	561.07	-344.00	10.72	5,244.54	5,238.09	-173.05	-1,157.66	10.14	1,095.94	1,075.71	50.93	54.159
5,420.00	5,291.47	548.31	-345.03	10.70	5,258.15	5,250.93	-176.49	-1,154.76	10.18	1,086.82	1,066.67	50.28	53.917
5,451.00	5,314.73	527.89	-346.79	10.67	5,275.46	5,267.13	-181.20	-1,150.90	10.24	1,072.30	1,052.14	51.87	53.183
5,482.00	5,337.45	506.86	-348.40	10.63	5,297.00	5,287.13	-187.56	-1,146.03	10.32	1,057.81	1,037.59	53.04	52.313
5,500.00	5,350.53	494.53	-349.31	10.61	5,297.00	5,287.13	-187.56	-1,146.03	10.32	1,049.44	1,029.25	52.86	51.970
5,513.00	5,359.98	485.63	-349.99	10.60	5,305.76	5,295.20	-190.29	-1,144.05	10.36	1,043.46	1,023.26	52.83	51.635
5,543.00	5,381.68	464.95	-351.26	10.57	5,327.00	5,314.70	-197.25	-1,139.28	10.44	1,030.09	1,009.72	55.04	50.587
5,573.00	5,402.95	443.81	-352.09	10.53	5,334.89	5,321.91	-199.96	-1,137.52	10.48	1,016.98	996.61	56.46	49.922
5,600.00	5,421.44	424.15	-352.46	10.51	5,347.66	5,333.51	-204.47	-1,134.71	10.53	1,005.38	984.91	58.89	49.125
5,605.00	5,424.79	420.43	-352.47	10.50	5,350.03	5,335.66	-205.33	-1,134.19	10.54	1,003.25	982.77	59.32	48.979
5,637.00	5,445.64	396.16	-352.23	10.46	5,365.94	5,350.01	-211.25	-1,130.72	10.61	989.80	969.23	61.49	48.112
5,669.00	5,465.87	371.38	-351.62	10.43	5,388.00	5,369.66	-220.00	-1,125.84	10.71	976.69	956.00	62.53	47.207
5,700.00	5,484.83	346.86	-351.02	10.40	5,398.80	5,379.16	-224.52	-1,123.40	10.77	963.97	943.29	63.34	46.607
5,732.00	5,503.39	320.80	-350.50	10.37	5,418.00	5,395.84	-232.97	-1,119.02	10.87	950.67	929.90	64.55	45.771
5,764.00	5,521.35	294.32	-349.90	10.34	5,431.14	5,407.07	-239.08	-1,115.97	10.94	937.54	916.69	65.27	44.957
5,795.00	5,538.21	268.31	-349.46	10.32	5,449.00	5,422.07	-247.80	-1,111.75	11.04	924.88	903.97	65.72	44.237
5,800.00	5,540.84	264.06	-349.43	10.32	5,449.00	5,422.07	-247.80	-1,111.75	11.04	922.80	901.90	65.88	44.148
5,827.00	5,554.39	240.71	-349.35	10.30	5,461.84	5,432.65	-254.39	-1,108.68	11.12	911.42	890.45	67.06	43.459
5,858.00	5,568.43	213.08	-349.71	10.28	5,480.00	5,447.32	-264.17	-1,104.32	11.24	897.81	876.75	68.28	42.638
5,890.00	5,581.05	183.69	-350.47	10.27	5,494.65	5,458.88	-272.42	-1,100.74	11.34	883.17	861.95	70.46	41.617
5,900.00	5,584.66	174.37	-350.72	10.26	5,501.04	5,463.85	-276.10	-1,099.14	11.38	878.55	857.27	70.80	41.286
5,921.00	5,592.06	154.72	-351.27	10.24	5,523.93	5,481.31	-289.64	-1,093.16	11.55	868.84	847.36	71.79	40.445
5,953.00	5,602.81	124.59	-352.04	10.22	5,567.64	5,513.46	-316.28	-1,080.23	11.90	853.53	831.62	73.88	38.958
5,984.00	5,612.02	95.00	-352.61	10.20	5,595.46	5,533.18	-333.74	-1,071.28	12.14	838.45	816.18	76.70	37.661
6,000.00	5,616.27	79.58	-352.87	10.19	5,610.15	5,543.40	-343.10	-1,066.41	12.28	830.61	808.19	77.34	37.057
6,016.00	5,620.39	64.12	-353.19	10.19	5,625.56	5,553.84	-353.12	-1,061.12	12.42	822.69	800.12	78.01	36.443
6,047.00	5,627.67	33.99	-353.66	10.22	5,651.36	5,570.65	-370.36	-1,051.86	12.69	807.40	784.47	80.39	35.210
6,079.00	5,633.60	2.55	-353.73	10.29	5,675.52	5,585.64	-387.03	-1,042.87	12.95	791.91	768.62	83.32	34.005
6,100.00	5,636.74	-18.21	-353.61	10.35	5,690.68	5,594.84	-397.65	-1,037.16	13.11	781.94	758.45	84.31	33.284
6,112.00	5,638.42	-30.09	-353.51	10.38	5,700.36	5,600.63	-404.48	-1,033.49	13.23	776.32	752.70	84.91	32.864
6,200.00	5,647.45	-117.61	-352.98	13.38	5,758.51	5,633.75	-446.67	-1,011.05	13.93	735.88	711.52	89.20	30.217
6,221.00	5,648.72	-138.57	-352.96	14.16	5,770.64	5,640.14	-455.85	-1,006.37	14.08	726.61	702.10	90.16	29.647
6,300.00	5,653.50	-217.42	-352.57	14.21	5,832.32	5,667.97	-505.17	-982.09	14.93	693.40	668.08	91.99	27.385
6,315.00	5,654.56	-232.38	-352.42	14.22	5,846.09	5,672.99	-516.70	-976.48	15.13	687.28	661.77	92.31	26.942
6,400.00	5,659.08	-317.25	-351.76	14.27	5,937.35	5,695.91	-595.72	-937.29	16.60	651.51	624.67	95.29	24.277
6,410.00	5,659.40	-327.25	-351.72	14.28	5,945.79	5,697.42	-603.15	-933.60	16.74	647.25	620.28	95.57	24.002

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W - Razor #27K-3408B - Existing Well - Existing Well_Customer Supplied Surveys

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
6,500.00	5,660.22	-417.24	-352.30	14.34	6,033.49	5,707.84	-681.28	-895.27	18.17	608.36	580.10	98.21	21.525
6,504.00	5,660.17	-421.24	-352.36	14.35	6,038.34	5,708.14	-685.62	-893.11	18.24	606.57	578.25	98.34	21.416
6,599.00	5,659.29	-516.22	-353.62	14.42	6,130.50	5,710.06	-767.54	-850.98	19.48	562.65	532.97	99.08	18.961
6,600.00	5,659.29	-517.22	-353.63	14.42	6,131.07	5,710.06	-768.05	-850.72	19.49	562.19	532.51	99.09	18.941
6,693.00	5,659.15	-610.17	-356.52	14.49	6,185.06	5,709.68	-816.90	-827.76	20.10	520.40	490.10	99.51	17.171
6,700.00	5,659.17	-617.16	-356.89	14.50	6,189.20	5,709.64	-820.70	-826.11	20.15	517.30	486.94	99.54	17.039
6,788.00	5,659.67	-704.93	-363.18	14.57	6,243.31	5,708.97	-870.91	-805.97	20.81	479.00	447.92	99.91	15.415
6,800.00	5,659.76	-716.89	-364.20	14.58	6,250.92	5,708.84	-878.05	-803.35	20.91	473.93	442.69	100.00	15.173
6,883.00	5,659.59	-799.71	-369.49	14.67	6,301.00	5,707.73	-925.48	-787.34	21.54	442.80	410.46	100.54	13.693
6,900.00	5,659.40	-816.70	-370.16	14.69	6,317.02	5,707.36	-940.80	-782.69	21.76	437.26	404.59	100.63	13.384
6,977.00	5,658.30	-893.68	-371.02	14.78	6,370.93	5,706.76	-992.80	-768.50	22.48	416.55	382.59	100.94	12.267
7,000.00	5,657.93	-916.67	-370.73	14.81	6,396.00	5,706.82	-1,017.19	-762.69	22.82	411.70	377.32	101.13	11.975
7,072.00	5,656.94	-988.66	-369.82	14.91	6,444.79	5,706.86	-1,064.91	-752.55	23.49	397.75	362.36	101.45	11.237
7,100.00	5,656.59	-1,016.66	-369.60	14.95	6,467.72	5,706.66	-1,087.44	-748.24	23.81	392.83	357.04	101.63	10.973
7,166.00	5,655.60	-1,082.65	-370.14	15.08	6,519.75	5,705.99	-1,138.74	-739.60	24.55	381.62	344.90	102.03	10.392
7,200.00	5,655.12	-1,116.64	-370.53	15.16	6,545.87	5,705.98	-1,164.60	-735.94	24.92	376.68	339.30	102.12	10.076
7,261.00	5,654.73	-1,177.63	-369.85	15.34	6,585.00	5,706.49	-1,203.45	-731.33	25.47	370.86	332.41	102.28	9.644
7,300.00	5,654.63	-1,216.63	-369.39	15.48	6,625.28	5,707.05	-1,243.56	-727.69	26.05	367.98	328.89	102.52	9.412
7,355.00	5,654.34	-1,271.61	-370.61	15.71	6,670.15	5,707.01	-1,288.35	-724.96	26.69	363.58	323.78	102.74	9.134
7,400.00	5,654.03	-1,316.56	-372.60	15.93	6,704.98	5,706.67	-1,323.15	-723.85	27.18	360.23	319.66	102.82	8.880
7,450.00	5,653.67	-1,366.50	-375.06	16.20	6,743.00	5,706.57	-1,361.17	-723.81	27.72	357.83	316.42	102.93	8.642
7,474.04	5,653.52	-1,390.52	-376.07	16.34	6,761.32	5,706.64	-1,379.48	-724.22	27.99	357.42	315.45	102.95	8.516
7,500.00	5,653.42	-1,416.47	-376.66	16.49	6,783.07	5,706.80	-1,401.22	-725.06	28.29	357.87	315.27	102.98	8.400
7,545.00	5,653.41	-1,461.47	-376.41	16.77	6,828.42	5,707.05	-1,446.53	-726.96	28.93	360.01	316.21	102.98	8.220
7,600.00	5,653.58	-1,516.46	-375.76	17.12	6,883.69	5,707.05	-1,501.75	-729.28	29.70	362.85	317.99	102.83	8.088
7,639.00	5,653.80	-1,555.46	-376.06	17.38	6,922.61	5,707.00	-1,540.63	-730.91	30.24	364.10	318.50	102.74	7.984
7,700.00	5,654.16	-1,616.43	-378.07	17.80	6,983.74	5,707.01	-1,601.71	-733.46	31.09	364.55	317.86	102.65	7.808
7,734.00	5,654.33	-1,650.36	-380.10	18.03	7,018.10	5,707.14	-1,636.05	-734.83	31.57	363.88	316.62	102.67	7.698
7,800.00	5,654.58	-1,716.12	-385.69	18.51	7,086.73	5,707.59	-1,704.63	-737.35	32.54	360.83	312.38	102.83	7.447
7,828.00	5,654.67	-1,743.96	-388.68	18.72	7,117.21	5,707.29	-1,735.09	-738.31	32.98	358.69	309.71	102.86	7.324
7,875.57	5,654.96	-1,791.42	-391.72	19.06	7,167.80	5,705.85	-1,785.64	-739.63	33.72	356.57	305.62	102.62	6.998
7,900.00	5,655.24	-1,815.84	-391.45	19.24	7,192.21	5,704.99	-1,810.03	-740.23	34.09	357.17	305.33	102.46	6.890
7,923.00	5,655.59	-1,838.79	-390.06	19.41	7,215.13	5,704.17	-1,832.93	-740.79	34.43	358.82	306.24	102.31	6.823
8,000.00	5,656.61	-1,915.59	-384.67	19.98	7,296.40	5,701.30	-1,914.14	-742.45	35.66	364.89	310.42	101.38	6.699
8,018.00	5,656.78	-1,933.57	-383.73	20.12	7,316.32	5,700.68	-1,934.04	-742.60	35.96	365.81	310.90	101.21	6.662
8,100.00	5,657.14	-2,015.50	-380.45	20.77	7,402.85	5,698.93	-2,020.55	-742.13	37.28	368.19	311.29	100.77	6.471
8,113.00	5,657.14	-2,028.49	-380.07	20.87	7,416.28	5,698.91	-2,033.98	-741.94	37.49	368.38	311.18	100.76	6.440
8,200.00	5,654.81	-2,115.43	-378.10	21.56	7,501.49	5,699.48	-2,119.18	-740.60	38.84	369.54	310.33	101.15	6.241
8,205.00	5,654.54	-2,120.42	-378.01	21.60	7,506.30	5,699.49	-2,123.98	-740.55	38.92	369.63	310.30	101.19	6.231
8,244.17	5,653.36	-2,159.56	-377.00	21.83	7,544.47	5,699.54	-2,162.16	-740.24	39.54	370.55	310.39	101.39	6.160
8,300.00	5,653.11	-2,215.35	-375.05	21.98	7,600.66	5,699.75	-2,218.34	-739.76	40.46	372.09	310.86	101.41	6.077
8,389.17	5,652.72	-2,304.47	-371.94	22.25	7,692.12	5,700.39	-2,309.79	-738.65	41.93	374.28	311.33	101.51	5.945
8,400.00	5,652.68	-2,315.29	-371.58	22.28	7,703.31	5,700.44	-2,320.98	-738.47	42.10	374.48	311.33	101.51	5.930
8,439.76	5,652.67	-2,355.04	-370.59	22.41	7,744.00	5,700.64	-2,361.66	-737.74	42.76	374.79	310.94	101.54	5.870
8,500.00	5,652.79	-2,415.27	-369.47	22.61	7,805.34	5,701.33	-2,422.98	-736.40	43.76	374.70	309.67	101.63	5.762
8,600.00	5,652.99	-2,515.25	-367.63	22.98	7,910.09	5,703.07	-2,527.67	-733.16	45.49	373.78	306.70	101.90	5.572
8,700.00	5,653.20	-2,615.23	-365.79	23.39	8,013.56	5,705.25	-2,631.02	-728.65	47.23	371.71	302.58	102.28	5.377
8,800.00	5,653.40	-2,715.22	-363.94	23.83	8,114.33	5,708.10	-2,731.61	-723.41	48.96	369.00	297.84	102.79	5.186
8,900.00	5,653.60	-2,815.20	-362.10	24.30	8,209.18	5,711.23	-2,826.29	-718.79	50.59	366.76	293.67	103.34	5.018
8,947.47	5,653.70	-2,862.67	-361.22	24.53	8,251.98	5,712.01	-2,869.07	-717.55	51.32	366.46	292.44	103.46	4.951
9,000.00	5,653.81	-2,915.18	-360.25	24.80	8,303.18	5,712.20	-2,920.26	-716.76	52.19	366.63	291.49	103.47	4.879

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W - Razor #27K-3408B - Existing Well - Existing Well_Customer Supplied Surveys

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)				
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	+E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	+E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor	
9,100.00	5,654.01	-3,015.16	-358.41	25.33	8,406.31	5,710.80	-3,023.37	-715.39	53.95	366.77	289.30	103.21	4.734	
9,181.52	5,654.18	-3,096.67	-356.90	25.78	8,486.07	5,709.20	-3,103.09	-713.75	55.32	366.21	286.87	102.94	4.616	
9,200.00	5,654.22	-3,115.15	-356.56	25.88	8,502.73	5,708.59	-3,119.75	-713.64	55.60	366.26	286.50	102.84	4.592	
9,300.00	5,654.42	-3,215.13	-354.72	26.46	8,600.54	5,703.18	-3,217.40	-714.30	57.27	367.49	285.26	101.90	4.469	
9,400.00	5,654.62	-3,315.11	-352.87	27.07	8,692.57	5,697.62	-3,309.25	-715.46	58.82	369.33	284.72	100.94	4.365	
9,500.00	5,654.83	-3,415.10	-351.03	27.69	8,783.89	5,694.51	-3,400.45	-718.75	60.34	374.01	287.10	100.29	4.303	
9,584.92	5,655.00	-3,500.00	-349.46	28.24	8,863.60	5,694.76	-3,480.07	-722.46	61.68	379.45	290.62	100.17	4.272	
9,600.00	5,655.06	-3,515.08	-349.21	28.33	8,877.82	5,695.03	-3,494.27	-723.18	61.92	380.49	291.37	100.18	4.269	
9,653.95	5,655.66	-3,569.03	-348.84	28.63	8,931.33	5,696.54	-3,547.68	-726.00	62.82	383.82	293.61	100.25	4.255	
9,700.00	5,656.44	-3,615.07	-348.86	28.92	8,979.22	5,698.10	-3,595.49	-728.31	63.63	386.11	294.82	100.30	4.229	
9,800.00	5,658.14	-3,715.05	-348.90	29.59	9,100.84	5,701.48	-3,717.02	-730.69	65.70	388.22	294.22	100.43	4.130	
9,900.00	5,659.84	-3,815.04	-348.95	30.29	9,218.37	5,703.59	-3,834.47	-727.17	67.75	385.27	288.59	100.54	3.985	
10,000.00	5,661.54	-3,915.02	-348.99	31.00	9,319.30	5,704.47	-3,935.18	-720.59	69.53	378.66	279.52	100.60	3.820	
10,100.00	5,663.24	-4,015.01	-349.03	31.72	9,419.25	5,703.46	-4,035.02	-716.15	71.31	373.76	272.08	100.32	3.676	
10,200.00	5,664.95	-4,114.99	-349.08	32.46	9,517.65	5,704.26	-4,133.25	-710.35	73.06	367.77	263.63	100.35	3.532	
10,300.00	5,666.65	-4,214.98	-349.12	33.21	9,606.27	5,705.40	-4,221.78	-706.88	74.62	363.82	257.41	100.39	3.419	
10,400.00	5,668.35	-4,314.97	-349.16	33.97	9,702.72	5,705.78	-4,318.23	-705.90	76.33	362.52	253.62	100.23	3.329	
10,500.00	5,670.05	-4,414.95	-349.21	34.75	9,799.21	5,706.27	-4,414.72	-705.24	78.03	361.60	250.20	100.07	3.246	
10,600.00	5,671.75	-4,514.94	-349.25	35.53	9,915.71	5,706.72	-4,531.17	-703.02	80.10	359.53	245.24	99.89	3.146	
10,700.00	5,673.45	-4,614.92	-349.29	36.32	10,018.74	5,708.52	-4,634.03	-697.36	81.94	354.07	237.24	100.06	3.030	
10,800.00	5,675.15	-4,714.91	-349.34	37.13	10,112.74	5,708.85	-4,727.91	-692.66	83.61	348.89	229.58	99.99	2.924	
10,900.00	5,676.85	-4,814.89	-349.38	37.94	10,199.37	5,707.28	-4,814.50	-691.53	85.15	346.93	225.16	99.53	2.849	
10,915.55	5,677.12	-4,830.44	-349.39	38.06	10,214.19	5,706.91	-4,829.32	-691.62	85.41	346.92	224.73	99.42	2.839	
11,000.00	5,678.55	-4,914.88	-349.42	38.76	10,295.36	5,705.03	-4,910.46	-692.64	86.83	347.39	222.93	98.87	2.791	
11,085.13	5,680.00	-5,000.00	-349.46	39.46	10,378.37	5,704.27	-4,993.46	-693.97	88.28	348.36	221.65	98.48	2.749	
11,100.00	5,680.21	-5,014.86	-349.47	39.58	10,391.69	5,704.24	-5,006.77	-694.25	88.51	348.64	221.55	98.43	2.743	
11,120.18	5,680.38	-5,035.04	-349.47	39.75	10,409.76	5,704.19	-5,024.84	-694.74	88.83	349.14	221.55	98.38	2.736	
11,200.00	5,680.76	-5,114.86	-349.47	40.41	10,484.23	5,703.79	-5,099.24	-697.81	90.12	352.26	222.66	98.18	2.718	
11,300.00	5,681.24	-5,214.86	-349.47	41.25	10,583.95	5,701.92	-5,198.84	-702.33	91.84	356.43	224.14	97.71	2.694	
11,400.00	5,681.72	-5,314.86	-349.47	42.10	10,680.73	5,699.21	-5,295.43	-707.65	93.52	361.46	226.49	97.10	2.678	
11,500.00	5,682.20	-5,414.86	-349.46	42.95	10,781.27	5,696.07	-5,395.76	-713.44	95.27	366.76	229.03	96.42	2.663	
11,600.00	5,682.68	-5,514.86	-349.46	43.81	10,883.23	5,698.09	-5,497.57	-718.29	97.02	371.66	231.34	96.57	2.649	
11,700.00	5,683.16	-5,614.86	-349.46	44.67	10,994.76	5,700.09	-5,609.01	-721.95	98.94	375.12	232.07	96.73	2.622	
11,800.00	5,683.64	-5,714.86	-349.46	45.54	11,098.95	5,700.52	-5,713.20	-722.77	100.76	375.88	230.14	96.71	2.579	
11,900.00	5,684.11	-5,814.85	-349.46	46.41	11,197.94	5,701.49	-5,812.19	-723.38	102.51	376.55	228.22	96.77	2.538	
12,000.00	5,684.59	-5,914.85	-349.46	47.29	11,318.28	5,704.58	-5,932.43	-720.24	104.65	374.16	222.94	97.21	2.474	
12,085.15	5,685.00	-6,000.00	-349.46	48.04	11,404.61	5,705.34	-6,018.60	-715.29	106.19	369.35	215.89	97.36	2.407	
12,100.00	5,685.03	-6,014.85	-349.46	48.17	11,417.29	5,705.26	-6,031.27	-714.69	106.42	368.64	214.83	97.37	2.397	
12,198.86	5,683.29	-6,113.69	-349.46	49.04	11,508.09	5,703.65	-6,122.02	-712.32	108.04	366.03	209.74	97.48	2.342	
12,200.00	5,683.25	-6,114.83	-349.46	49.05	11,509.25	5,703.62	-6,123.18	-712.30	108.06	366.01	209.69	97.48	2.341	
12,300.00	5,679.76	-6,214.77	-349.46	49.94	11,612.74	5,700.93	-6,226.61	-709.94	109.90	363.88	204.90	97.67	2.289	
12,400.00	5,676.27	-6,314.71	-349.46	50.83	11,713.80	5,698.07	-6,327.57	-706.61	111.69	360.70	199.11	97.85	2.232	
12,500.00	5,672.78	-6,414.65	-349.46	51.72	11,817.14	5,695.30	-6,430.81	-702.97	113.53	357.33	193.11	98.06	2.176	
12,600.00	5,669.29	-6,514.59	-349.46	52.62	11,918.42	5,692.13	-6,531.94	-698.51	115.34	353.02	186.17	98.22	2.116	
12,700.00	5,665.80	-6,614.53	-349.46	53.52	12,018.04	5,689.92	-6,631.43	-693.92	117.13	348.64	179.23	98.53	2.058	
12,800.00	5,662.31	-6,714.47	-349.46	54.42	12,119.69	5,689.39	-6,732.94	-688.63	118.97	343.95	172.08	99.16	2.001	
12,900.00	5,658.82	-6,814.41	-349.46	55.33	12,214.38	5,689.93	-6,827.51	-683.93	120.67	339.73	165.60	99.93	1.951	
13,000.00	5,655.33	-6,914.34	-349.46	56.24	12,303.96	5,691.13	-6,917.05	-681.84	122.27	338.27	162.04	100.71	1.919	
13,070.09	5,652.88	-6,984.39	-349.46	56.87	12,374.53	5,692.54	-6,987.60	-680.90	123.53	338.09	160.33	101.38	1.902	
13,100.00	5,651.84	-7,014.28	-349.46	57.15	12,390.00	5,692.86	-7,003.07	-680.68	123.81	338.32	160.10	101.53	1.898	
13,117.21	5,651.24	-7,031.48	-349.46	57.30	12,390.00	5,692.86	-7,003.07	-680.68	123.81	339.45	161.07	101.53	1.903	

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-3410B - Plan E - Actual Field Surveys_Sperry

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre		Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre		Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
		+N/-S (usft)	+E/-W (usft)				+N/-S (usft)	+E/-W (usft)					
100.00	100.00	0.04	-0.03	3.29	97.38	97.38	-74.94	32.61	3.29	81.79	74.24	-166.37	10.838
177.00	177.00	0.14	-0.10	3.29	174.68	174.68	-74.71	31.88	3.29	81.40	73.84	-165.98	10.777
200.00	200.00	0.19	-0.13	3.30	197.66	197.66	-74.63	31.59	3.30	81.27	73.71	-171.87	10.752
244.28	244.28	0.44	-0.16	3.31	241.88	241.86	-74.52	30.97	3.31	81.17	73.60	-161.70	10.716
268.00	268.00	0.65	-0.17	3.31	265.56	265.55	-74.49	30.61	3.31	81.20	73.61	-159.82	10.705
300.00	300.00	0.97	-0.19	3.32	297.53	297.52	-74.46	30.13	3.32	81.29	73.69	-162.42	10.693
359.00	358.99	1.58	-0.26	3.34	356.49	356.46	-74.36	29.40	3.34	81.53	73.89	-166.70	10.672
400.00	399.99	2.02	-0.35	3.36	397.52	397.50	-74.27	28.96	3.35	81.73	74.05	-174.32	10.654
451.00	450.99	2.56	-0.54	3.38	448.57	448.54	-74.15	28.35	3.37	81.97	74.25	-176.76	10.623
500.00	499.98	3.08	-0.76	3.41	497.82	497.78	-73.96	27.69	3.40	82.14	74.37	-178.42	10.576
544.00	543.98	3.57	-0.95	3.43	542.05	542.01	-73.69	27.00	3.42	82.17	74.35	-179.79	10.512
600.00	599.98	4.08	-1.19	3.46	597.80	597.75	-73.37	26.06	3.46	82.11	74.23	-166.52	10.414
635.00	634.98	4.28	-1.35	3.49	632.63	632.58	-73.27	25.45	3.48	82.06	74.13	-150.86	10.346
679.27	679.24	4.43	-1.53	3.52	676.61	676.55	-73.27	24.72	3.51	82.02	74.02	-145.37	10.264
700.00	699.98	4.48	-1.60	3.53	697.20	697.14	-73.31	24.42	3.53	82.02	74.00	-141.09	10.228
727.00	726.98	4.52	-1.68	3.55	724.02	723.95	-73.40	24.06	3.55	82.06	74.00	-131.70	10.183
800.00	799.98	4.49	-1.93	3.61	797.12	797.05	-73.68	23.16	3.60	82.09	73.92	-83.88	10.042
819.00	818.98	4.44	-2.02	3.62	816.16	816.09	-73.73	22.94	3.62	82.06	73.85	-78.80	9.999
872.67	872.65	4.32	-2.24	3.67	869.67	869.59	-73.89	22.35	3.67	81.99	73.69	-78.78	9.876
900.00	899.98	4.28	-2.30	3.70	896.91	896.83	-74.00	22.11	3.69	82.01	73.65	-78.95	9.819
911.00	910.97	4.27	-2.32	3.71	907.87	907.79	-74.05	22.02	3.70	82.02	73.65	-79.13	9.797
993.00	992.97	4.89	-2.69	3.79	989.94	989.86	-74.40	21.40	3.78	82.87	74.34	-171.65	9.709
1,000.00	999.97	5.00	-2.74	3.80	996.94	996.86	-74.43	21.35	3.79	83.01	74.46	-173.89	9.708
1,087.00	1,086.93	7.57	-3.42	3.89	1,083.83	1,083.74	-74.75	20.78	3.88	85.80	77.07	-174.81	9.821
1,100.00	1,099.91	8.13	-3.53	3.91	1,096.85	1,096.77	-74.80	20.70	3.90	86.40	77.63	-173.13	9.857
1,176.00	1,175.78	12.54	-3.97	4.00	1,174.21	1,174.12	-74.48	19.97	3.99	90.26	81.33	-167.83	10.098
1,200.00	1,199.72	14.29	-4.09	4.03	1,198.76	1,198.67	-74.13	19.61	4.02	91.56	82.56	-169.86	10.178
1,268.00	1,267.49	19.86	-4.76	4.12	1,268.68	1,268.53	-72.31	17.66	4.11	94.95	85.79	-174.90	10.363
1,300.00	1,299.35	22.82	-5.26	4.16	1,301.85	1,301.64	-71.00	16.23	4.15	96.39	87.15	-177.54	10.429
1,360.00	1,359.01	29.01	-6.57	4.25	1,364.24	1,363.83	-67.49	12.62	4.23	98.70	89.30	-178.04	10.503
1,400.00	1,398.73	33.60	-7.76	4.31	1,406.35	1,405.71	-64.24	9.59	4.30	99.87	90.37	-174.27	10.509
1,451.00	1,449.28	40.00	-9.75	4.38	1,460.18	1,459.08	-58.77	5.28	4.37	100.73	91.09	-170.21	10.448
1,500.00	1,497.77	46.65	-12.21	4.46	1,510.97	1,509.27	-52.49	0.71	4.45	101.03	91.25	-165.56	10.331
1,542.00	1,539.25	52.69	-14.82	4.52	1,554.54	1,552.19	-46.44	-3.64	4.52	101.02	91.32	-162.08	10.413
1,600.00	1,596.52	60.92	-18.80	4.57	1,615.85	1,612.38	-36.39	-9.62	4.59	99.54	89.84	-158.70	10.260
1,636.00	1,632.11	65.72	-21.34	4.60	1,653.55	1,649.24	-29.18	-12.93	4.61	97.38	87.62	-156.79	9.980
1,700.00	1,695.37	74.10	-26.29	4.62	1,719.83	1,713.81	-15.00	-17.61	4.63	92.05	82.28	-153.95	9.421
1,728.00	1,723.02	77.79	-28.69	4.62	1,747.78	1,740.97	-8.56	-19.11	4.64	89.38	79.60	-153.32	9.141
1,800.00	1,793.94	87.89	-35.93	4.65	1,818.84	1,810.08	7.79	-21.31	4.66	83.64	73.87	-153.74	8.559
1,819.00	1,812.59	90.74	-38.13	4.65	1,837.57	1,828.31	12.10	-21.53	4.67	82.52	72.75	-154.50	8.447
1,876.30	1,868.62	100.49	-45.08	4.68	1,893.95	1,883.18	25.04	-21.51	4.69	80.96	71.23	-164.58	8.318
1,900.00	1,891.68	105.13	-48.01	4.69	1,917.21	1,905.81	30.38	-21.21	4.70	81.24	71.52	-168.49	8.360
1,911.00	1,902.35	107.40	-49.38	4.70	1,927.99	1,916.31	32.82	-21.06	4.71	81.55	71.84	-170.22	8.399
2,000.00	1,988.11	127.83	-61.59	4.77	2,015.39	2,001.59	51.99	-20.37	4.76	87.88	78.19	-177.64	9.071
2,002.00	1,990.02	128.33	-61.89	4.77	2,017.37	2,003.52	52.41	-20.37	4.76	88.09	78.40	-177.79	9.093
2,094.00	2,078.12	150.97	-75.65	4.86	2,109.05	2,093.09	71.99	-20.52	4.83	97.98	88.18	-176.81	9.994
2,100.00	2,083.87	152.42	-76.55	4.87	2,115.18	2,099.06	73.33	-20.56	4.84	98.60	88.78	-176.51	10.047
2,185.00	2,165.55	172.32	-89.10	4.96	2,201.64	2,183.16	93.38	-21.52	4.92	105.93	95.96	-172.32	10.624
2,200.00	2,180.01	175.69	-91.28	4.98	2,216.62	2,197.69	97.04	-21.69	4.94	107.03	97.02	-171.69	10.698
2,277.00	2,254.41	192.13	-102.30	5.08	2,292.67	2,271.29	116.16	-22.19	5.03	112.19	102.00	-168.33	11.014
2,300.00	2,276.71	196.79	-105.54	5.11	2,314.68	2,292.61	121.62	-22.20	5.06	113.81	103.56	-167.10	11.110
2,368.00	2,342.75	210.01	-114.87	5.20	2,380.20	2,356.28	137.11	-21.84	5.15	119.34	108.92	-163.77	11.451

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-3410B - Plan E - Actual Field Surveys_Sperry

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft . Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
2,400.00	2,373.80	216.29	-119.37	5.25	2,411.87	2,387.08	144.43	-21.59	5.19	122.43	111.96	162.02	11.685
2,459.00	2,430.64	229.13	-128.60	5.34	2,469.95	2,443.59	157.86	-21.13	5.27	129.93	119.35	159.21	12.277
2,500.00	2,469.97	238.48	-135.45	5.41	2,509.71	2,482.28	167.00	-20.71	5.33	136.05	125.34	158.53	12.707
2,551.00	2,518.97	249.71	-144.02	5.49	2,559.54	2,530.80	178.31	-19.99	5.39	143.88	133.03	157.78	13.250
2,600.00	2,566.13	260.20	-152.23	5.58	2,609.47	2,579.73	188.24	-20.41	5.44	151.09	140.11	156.61	13.753
2,642.00	2,606.60	269.03	-159.16	5.66	2,652.69	2,622.34	195.26	-22.19	5.47	156.70	145.62	156.42	14.148
2,700.00	2,662.37	281.98	-168.45	5.77	2,712.98	2,681.84	204.03	-26.19	5.49	163.76	152.61	152.19	14.693
2,733.00	2,693.94	290.09	-173.55	5.84	2,745.60	2,714.04	208.51	-28.92	5.50	167.65	156.47	150.47	15.004
2,800.00	2,758.00	306.84	-183.78	5.98	2,807.41	2,775.15	216.85	-33.05	5.52	176.71	165.44	152.58	15.688
2,825.00	2,781.94	312.96	-187.61	6.03	2,830.79	2,798.29	219.98	-34.15	5.53	180.47	169.17	153.25	15.969
2,900.00	2,854.15	330.61	-197.49	6.19	2,904.23	2,870.85	231.06	-36.37	5.57	190.42	178.92	147.54	16.571
2,917.00	2,870.61	334.46	-199.29	6.22	2,921.06	2,887.44	233.89	-36.64	5.58	192.25	180.71	145.91	16.668
3,000.00	2,951.33	352.00	-207.39	6.39	3,004.88	2,970.08	247.77	-38.43	5.63	199.71	187.99	147.24	17.046
3,008.00	2,959.14	353.58	-208.14	6.41	3,012.93	2,978.02	249.07	-38.65	5.64	200.32	188.58	147.38	17.072
3,100.00	3,049.28	369.97	-216.48	6.59	3,105.19	3,069.11	263.39	-41.76	5.70	205.93	193.98	150.15	17.233
3,192.00	3,139.53	386.26	-223.69	6.76	3,194.23	3,157.18	276.13	-44.77	5.77	211.11	198.97	141.43	17.386
3,200.00	3,147.36	387.81	-224.25	6.78	3,202.14	3,165.01	277.23	-44.99	5.78	211.62	199.46	141.52	17.404
3,283.00	3,228.60	403.78	-230.04	6.94	3,284.26	3,246.13	289.94	-46.34	5.85	217.09	204.74	142.00	17.578
3,300.00	3,245.24	407.04	-231.22	6.98	3,301.19	3,262.82	292.76	-46.45	5.87	218.23	205.83	141.82	17.607
3,375.00	3,318.68	421.38	-236.36	7.13	3,375.91	3,336.54	304.90	-47.12	5.94	223.19	210.60	141.16	17.732
3,400.00	3,343.16	426.15	-238.07	7.18	3,401.21	3,361.52	308.93	-47.42	5.97	224.82	212.17	141.62	17.770
3,467.00	3,408.76	438.91	-242.86	7.32	3,469.02	3,428.44	319.79	-48.42	6.04	229.16	216.34	142.83	17.867
3,500.00	3,441.06	445.20	-245.33	7.39	3,502.15	3,461.15	325.09	-49.00	6.08	231.32	218.40	143.25	17.910
3,558.00	3,497.80	456.33	-249.84	7.52	3,560.31	3,518.55	334.34	-50.14	6.14	235.21	222.14	143.99	17.995
3,600.00	3,538.88	464.38	-253.24	7.61	3,601.39	3,559.11	340.80	-50.94	6.19	238.19	225.01	144.81	18.062
3,649.00	3,586.82	473.66	-257.33	7.72	3,649.28	3,606.42	348.22	-51.72	6.25	241.91	228.58	145.74	18.153
3,700.00	3,636.73	483.21	-261.68	7.83	3,699.19	3,655.65	356.43	-52.02	6.31	245.99	232.51	145.86	18.242
3,741.00	3,676.87	490.81	-265.20	7.92	3,739.27	3,695.04	363.77	-51.62	6.37	249.40	235.78	145.74	18.309
3,800.00	3,734.66	501.48	-270.45	8.06	3,805.84	3,760.15	377.61	-51.07	6.47	253.54	239.69	147.01	18.299
3,832.00	3,766.02	507.10	-273.43	8.13	3,840.39	3,793.76	385.63	-51.20	6.52	255.12	241.13	147.60	18.240
3,900.00	3,832.67	518.90	-279.93	8.28	3,906.22	3,857.81	400.81	-51.50	6.63	258.68	244.42	146.38	18.142
3,924.00	3,856.19	523.08	-282.23	8.34	3,929.46	3,880.46	406.01	-51.57	6.66	260.11	245.75	145.99	18.119
4,000.00	3,930.33	538.42	-288.78	8.52	4,003.11	3,952.30	422.26	-51.49	6.79	265.37	250.71	134.49	18.102
4,015.00	3,944.87	541.94	-289.89	8.55	4,018.28	3,967.11	425.57	-51.42	6.82	266.54	251.82	132.77	18.111
4,100.00	4,026.80	563.67	-296.14	8.77	4,114.23	4,060.37	448.05	-52.70	6.99	271.97	256.91	131.41	18.061
4,106.00	4,032.55	565.30	-296.59	8.78	4,120.41	4,066.35	449.58	-52.87	7.00	272.29	257.21	131.34	18.055
4,197.00	4,120.02	589.46	-303.49	9.03	4,213.86	4,156.80	472.86	-56.00	7.18	276.46	261.01	132.33	17.890
4,200.00	4,122.91	590.23	-303.72	9.04	4,216.91	4,159.76	473.60	-56.13	7.19	276.58	261.11	132.31	17.883
4,289.00	4,208.82	612.55	-310.21	9.28	4,306.33	4,246.76	493.65	-60.91	7.36	279.22	263.41	132.14	17.656
4,300.00	4,219.46	615.22	-310.98	9.30	4,316.92	4,257.10	495.88	-61.54	7.38	279.49	263.64	132.42	17.628
4,380.00	4,297.13	633.52	-316.60	9.51	4,394.61	4,332.96	512.08	-65.71	7.53	281.42	265.26	134.37	17.414
4,400.00	4,316.63	637.77	-317.98	9.56	4,414.69	4,352.58	516.22	-66.75	7.57	281.80	265.56	134.49	17.351
4,473.00	4,388.08	651.93	-322.68	9.74	4,487.56	4,423.83	531.03	-70.66	7.72	282.19	265.64	134.81	17.058
4,500.00	4,414.61	656.70	-324.27	9.80	4,513.95	4,449.65	536.27	-72.08	7.77	282.03	265.38	134.27	16.935
4,563.00	4,476.63	667.24	-327.62	9.95	4,574.82	4,509.29	548.02	-75.28	7.89	281.35	264.44	132.87	16.638
4,600.00	4,513.16	672.88	-329.35	10.03	4,609.15	4,543.05	554.00	-77.05	7.95	280.84	263.79	132.71	16.469
4,655.00	4,567.64	680.10	-331.57	10.14	4,660.38	4,593.64	561.65	-79.64	8.05	279.89	262.63	132.51	16.216
4,700.00	4,612.32	685.20	-333.13	10.23	4,703.40	4,636.23	567.27	-81.73	8.12	278.99	261.57	132.44	16.014
4,747.00	4,659.05	690.02	-334.61	10.33	4,748.39	4,680.85	572.65	-83.80	8.20	278.02	260.43	132.39	15.807
4,800.00	4,711.86	694.17	-336.13	10.42	4,800.14	4,732.25	578.23	-86.14	8.29	276.55	258.78	140.08	15.556
4,839.00	4,750.80	695.95	-337.19	10.49	4,838.00	4,769.89	581.93	-87.88	8.35	275.03	257.10	154.20	15.342
4,900.00	4,811.78	696.85	-338.14	10.57	4,892.51	4,824.13	586.99	-89.71	8.44	272.07	253.93	-129.81	14.992

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-3410B - Plan E - Actual Field Surveys_Sperry

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
4,931.00	4,842.78	696.50	-338.13	10.62	4,920.07	4,851.57	589.50	-90.11	8.49	270.37	252.11	-50.20	14.803
5,000.00	4,911.75	694.54	-337.59	10.70	4,984.02	4,915.32	594.48	-90.32	8.59	266.83	248.30	-53.20	14.400
5,023.00	4,934.73	693.63	-337.35	10.73	5,005.57	4,936.85	595.66	-90.36	8.62	265.76	247.15	-53.86	14.277
5,100.00	5,011.59	689.06	-336.40	10.81	5,079.67	5,010.91	597.63	-90.64	8.72	262.23	243.35	-59.66	13.888
5,115.00	5,026.54	687.87	-336.20	10.83	5,094.24	5,025.48	597.61	-90.77	8.74	261.51	242.57	-60.34	13.812
5,146.00	5,057.22	683.54	-336.20	10.86	5,123.36	5,054.59	597.14	-91.11	8.77	259.87	240.82	-74.94	13.639
5,176.00	5,086.39	676.58	-336.48	10.87	5,149.77	5,080.97	595.92	-91.41	8.80	258.01	238.85	-73.31	13.464
5,200.00	5,109.28	669.39	-336.66	10.87	5,170.85	5,101.99	594.32	-91.63	8.82	256.31	237.05	-75.16	13.311
5,206.00	5,114.93	667.36	-336.72	10.87	5,176.11	5,107.22	593.83	-91.68	8.83	255.88	236.60	-75.62	13.271
5,238.00	5,144.15	654.39	-337.45	10.86	5,205.00	5,135.93	590.55	-91.94	8.85	253.73	234.31	-80.31	13.065
5,268.00	5,170.13	639.46	-338.68	10.85	5,233.87	5,164.38	585.76	-92.53	8.87	251.95	232.42	-83.54	12.899
5,299.00	5,195.92	622.32	-340.13	10.82	5,261.49	5,191.25	579.44	-93.53	8.88	250.31	230.70	-85.52	12.763
5,300.00	5,196.73	621.75	-340.18	10.82	5,262.39	5,192.11	579.21	-93.57	8.88	250.26	230.65	-85.58	12.759
5,329.00	5,220.11	604.64	-341.48	10.79	5,285.99	5,214.76	572.62	-94.39	8.89	249.16	229.50	-87.01	12.670
5,359.00	5,243.93	586.43	-342.58	10.75	5,312.35	5,239.71	564.14	-95.08	8.89	248.50	228.80	-88.04	12.611
5,389.00	5,267.55	567.96	-343.56	10.72	5,342.91	5,268.05	552.76	-96.00	8.88	248.05	228.33	-90.28	12.578
5,400.00	5,276.11	561.07	-344.00	10.71	5,355.10	5,279.16	547.77	-96.50	8.88	247.92	228.21	-91.57	12.575
5,416.50	5,288.81	550.56	-344.82	10.69	5,372.96	5,295.22	540.01	-97.38	8.87	247.85	228.15	-93.38	12.580
5,420.00	5,291.47	548.31	-345.03	10.69	5,376.74	5,298.59	538.30	-97.58	8.87	247.85	228.15	-93.74	12.582
5,451.00	5,314.73	527.89	-346.79	10.66	5,408.36	5,326.25	523.11	-99.45	8.86	247.81	228.13	-94.88	12.588
5,482.00	5,337.45	506.86	-348.40	10.62	5,439.65	5,352.89	506.81	-101.37	8.84	247.72	228.05	-95.91	12.596
5,497.50	5,348.71	496.24	-349.18	10.61	5,454.67	5,365.59	498.84	-102.33	8.83	247.66	228.01	-96.71	12.604
5,500.00	5,350.53	494.53	-349.31	10.60	5,456.86	5,367.43	497.67	-102.47	8.83	247.66	228.02	-96.82	12.606
5,513.00	5,359.98	485.63	-349.99	10.59	5,468.28	5,377.02	491.50	-103.13	8.83	247.74	228.11	-97.41	12.620
5,543.00	5,381.68	464.95	-351.26	10.56	5,496.17	5,400.14	475.96	-104.50	8.81	247.94	228.32	-97.14	12.636
5,560.49	5,394.15	452.71	-351.77	10.54	5,513.06	5,413.75	465.98	-105.23	8.80	247.93	228.33	-97.42	12.646
5,573.00	5,402.95	443.81	-352.09	10.52	5,523.82	5,422.28	459.45	-105.62	8.79	247.97	228.38	-97.56	12.656
5,600.00	5,421.44	424.15	-352.46	10.49	5,548.83	5,441.80	443.82	-106.23	8.78	248.12	228.54	-97.26	12.672
5,605.00	5,424.79	420.43	-352.47	10.49	5,554.65	5,446.25	440.07	-106.37	8.77	248.10	228.52	-97.25	12.673
5,637.00	5,445.64	396.16	-352.23	10.45	5,595.54	5,476.22	412.31	-107.77	8.75	247.29	227.74	-97.71	12.654
5,669.00	5,465.87	371.38	-351.62	10.42	5,630.99	5,500.17	386.25	-109.71	8.73	245.23	225.72	-97.96	12.571
5,700.00	5,484.83	346.86	-351.02	10.39	5,660.02	5,519.00	364.22	-111.17	8.71	243.33	223.87	-98.84	12.502
5,732.00	5,503.39	320.80	-350.50	10.36	5,692.00	5,538.18	338.66	-112.25	8.69	241.88	222.45	-99.18	12.450
5,764.00	5,521.35	294.32	-349.90	10.33	5,723.68	5,555.24	311.98	-112.96	8.68	240.45	221.04	-98.91	12.388
5,795.00	5,538.21	268.31	-349.46	10.31	5,755.03	5,571.62	285.25	-113.53	8.67	239.33	219.94	-99.31	12.345
5,800.00	5,540.84	264.06	-349.43	10.30	5,760.14	5,574.27	280.89	-113.62	8.67	239.20	219.81	-99.37	12.340
5,827.00	5,554.39	240.71	-349.35	10.29	5,787.39	5,588.40	257.59	-114.16	8.66	238.68	219.32	-99.81	12.325
5,837.19	5,559.19	231.72	-349.40	10.28	5,797.31	5,593.54	249.12	-114.36	8.65	238.62	219.26	-100.17	12.327
5,858.00	5,568.43	213.08	-349.71	10.27	5,816.23	5,603.17	232.82	-114.61	8.65	238.93	219.58	-100.86	12.349
5,890.00	5,581.05	183.69	-350.47	10.25	5,849.21	5,619.26	204.04	-114.76	8.66	240.14	220.79	-101.57	12.405
5,900.00	5,584.66	174.37	-350.72	10.25	5,859.99	5,624.35	194.53	-114.86	8.66	240.55	221.18	-101.86	12.420
5,921.00	5,592.06	154.72	-351.27	10.23	5,881.53	5,633.91	175.24	-114.96	8.68	241.39	222.00	-102.32	12.449
5,953.00	5,602.81	124.59	-352.04	10.21	5,915.55	5,647.39	144.00	-114.94	8.71	242.60	223.16	-102.65	12.478
5,984.00	5,612.02	95.00	-352.61	10.19	5,946.85	5,658.95	114.92	-114.93	8.75	243.68	224.18	-102.91	12.492
6,000.00	5,616.27	79.58	-352.87	10.18	5,962.71	5,664.73	100.15	-114.90	8.78	244.33	224.79	-103.32	12.502
6,016.00	5,620.39	64.12	-353.19	10.17	5,978.55	5,670.34	85.34	-114.83	8.80	245.09	225.50	-103.70	12.515
6,047.00	5,627.67	33.99	-353.66	10.20	6,017.55	5,682.29	48.23	-114.74	8.88	246.18	226.50	-104.05	12.507
6,079.00	5,633.60	2.55	-353.73	10.28	6,057.46	5,691.34	9.38	-115.33	8.96	246.11	226.31	-104.33	12.426
6,100.00	5,636.74	-18.21	-353.61	10.33	6,081.69	5,695.55	-14.48	-115.88	9.02	245.66	225.77	-104.49	12.350
6,112.00	5,638.42	-30.09	-353.51	10.37	6,095.62	5,697.49	-28.27	-116.23	9.51	245.27	225.33	-104.51	12.303
6,200.00	5,647.45	-117.61	-352.98	13.37	6,185.65	5,702.59	-118.08	-118.54	13.02	241.55	221.34	-103.88	11.955
6,221.00	5,648.72	-138.57	-352.96	14.15	6,203.54	5,703.21	-135.95	-118.61	13.03	241.31	221.07	-103.80	11.919

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-3410B - Plan E - Actual Field Surveys_Sperry

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft . Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
6,224.94	5,648.92	-142.51	-352.96	14.15	6,206.90	5,703.34	-139.31	-118.60	13.03	241.31	221.06	-103.79	11.915
6,300.00	5,653.50	-217.42	-352.57	14.20	6,275.02	5,706.64	-207.33	-117.04	13.07	242.34	221.91	-103.50	11.864
6,315.00	5,654.56	-232.38	-352.42	14.21	6,290.14	5,707.39	-222.42	-116.58	13.08	242.56	222.09	-103.40	11.849
6,400.00	5,659.08	-317.25	-351.76	14.27	6,376.15	5,711.17	-308.31	-114.00	13.14	244.23	223.44	-103.10	11.752
6,410.00	5,659.40	-327.25	-351.72	14.27	6,386.33	5,711.59	-318.48	-113.71	13.14	244.48	223.66	-103.10	11.740
6,500.00	5,660.22	-417.24	-352.30	14.34	6,478.80	5,714.88	-410.85	-111.47	13.20	247.71	226.41	-103.44	11.627
6,504.00	5,660.17	-421.24	-352.36	14.34	6,482.95	5,714.97	-415.01	-111.39	13.20	247.89	226.56	-103.46	11.622
6,599.00	5,659.29	-516.22	-353.62	14.41	6,576.77	5,715.67	-508.81	-109.39	13.27	251.46	229.50	-103.66	11.453
6,600.00	5,659.29	-517.22	-353.63	14.41	6,577.71	5,715.68	-509.74	-109.36	13.27	251.50	229.53	-103.66	11.451
6,693.00	5,659.15	-610.17	-356.52	14.48	6,669.37	5,716.06	-601.34	-105.96	13.33	257.77	235.08	-103.50	11.361
6,700.00	5,659.17	-617.16	-356.89	14.49	6,676.69	5,716.03	-608.66	-105.70	13.33	258.36	235.61	-103.46	11.355
6,788.00	5,659.67	-704.93	-363.18	14.56	6,767.83	5,714.43	-699.73	-102.96	13.39	266.60	243.00	-102.63	11.292
6,800.00	5,659.76	-716.89	-364.20	14.58	6,780.13	5,714.00	-712.02	-102.62	13.40	267.81	244.08	-102.44	11.286
6,883.00	5,659.59	-799.71	-369.49	14.66	6,861.65	5,710.37	-793.43	-100.40	13.46	274.48	249.93	-101.28	11.181
6,900.00	5,659.40	-816.70	-370.16	14.68	6,877.84	5,709.71	-809.60	-99.87	13.47	275.59	250.87	-101.13	11.149
6,977.00	5,658.30	-893.68	-371.02	14.77	6,951.88	5,707.34	-883.54	-97.03	13.52	279.07	253.58	-100.73	10.949
7,000.00	5,657.93	-916.67	-370.73	14.80	6,974.15	5,706.93	-905.79	-96.10	13.54	279.72	253.99	-100.69	10.870
7,072.00	5,656.94	-988.66	-369.82	14.90	7,042.99	5,706.36	-974.55	-92.93	13.58	282.16	255.65	-100.69	10.642
7,100.00	5,656.59	-1,016.66	-369.60	14.94	7,069.48	5,706.20	-1,001.00	-91.48	13.60	283.48	256.64	-100.67	10.563
7,166.00	5,655.60	-1,082.65	-370.14	15.07	7,131.96	5,705.85	-1,063.36	-87.52	13.65	288.24	260.61	-100.60	10.433
7,200.00	5,655.12	-1,116.64	-370.53	15.15	7,164.17	5,705.69	-1,095.48	-85.20	13.68	291.09	263.05	-100.59	10.383
7,261.00	5,654.73	-1,177.63	-369.85	15.33	7,224.17	5,705.41	-1,155.30	-80.51	13.78	295.13	266.34	-100.49	10.251
7,300.00	5,654.63	-1,216.63	-369.39	15.47	7,264.03	5,705.19	-1,195.04	-77.46	14.04	297.59	268.25	-100.38	10.146
7,355.00	5,654.34	-1,271.61	-370.61	15.70	7,324.20	5,704.80	-1,255.07	-73.34	14.45	302.49	272.36	-100.19	10.041
7,400.00	5,654.03	-1,316.56	-372.60	15.92	7,376.03	5,704.53	-1,306.85	-71.02	14.81	306.44	275.66	-100.05	9.956
7,450.00	5,653.67	-1,366.50	-375.06	16.19	7,432.95	5,704.40	-1,363.75	-69.83	15.20	309.93	278.43	-99.98	9.840
7,500.00	5,653.42	-1,416.47	-376.66	16.49	7,487.35	5,704.57	-1,418.15	-69.93	15.58	311.48	279.30	-100.01	9.680
7,545.00	5,653.41	-1,461.47	-376.41	16.76	7,527.56	5,704.88	-1,458.36	-69.89	15.87	311.34	278.61	-100.08	9.511
7,562.81	5,653.44	-1,479.28	-376.07	16.88	7,543.48	5,705.05	-1,474.27	-69.71	15.98	311.23	278.25	-100.10	9.438
7,600.00	5,653.58	-1,516.46	-375.76	17.12	7,577.82	5,705.49	-1,508.60	-69.01	16.23	311.73	278.24	-100.15	9.309
7,639.00	5,653.80	-1,555.46	-376.06	17.37	7,623.13	5,706.01	-1,553.91	-68.41	16.58	312.57	278.47	-100.18	9.165
7,700.00	5,654.16	-1,616.43	-378.07	17.79	7,696.15	5,706.52	-1,626.91	-69.42	17.13	313.75	278.64	-100.17	8.937
7,734.00	5,654.33	-1,650.36	-380.10	18.03	7,738.88	5,706.71	-1,669.59	-71.51	17.46	314.11	278.43	-100.16	8.805
7,800.00	5,654.58	-1,716.12	-385.69	18.51	7,810.95	5,706.97	-1,741.45	-77.08	18.00	314.56	277.88	-100.15	8.575
7,828.00	5,654.67	-1,743.96	-388.68	18.71	7,839.63	5,707.13	-1,770.02	-79.49	18.21	315.21	278.11	-100.14	8.497
7,900.00	5,655.24	-1,815.84	-391.45	19.23	7,906.96	5,708.05	-1,837.12	-84.98	18.72	312.24	274.21	-100.27	8.211
7,923.00	5,655.59	-1,838.79	-390.06	19.40	7,927.71	5,708.68	-1,857.80	-86.47	18.88	309.32	271.08	-100.42	8.090
8,000.00	5,656.61	-1,915.59	-384.67	19.98	7,993.24	5,711.75	-1,923.16	-90.12	19.39	300.32	261.00	-101.15	7.638
8,018.00	5,656.78	-1,933.57	-383.73	20.11	8,008.13	5,712.65	-1,938.02	-90.61	19.51	299.01	259.44	-101.35	7.556
8,100.00	5,657.14	-2,015.50	-380.45	20.76	8,079.47	5,717.70	-2,009.17	-91.17	20.08	296.26	255.55	-102.39	7.278
8,113.00	5,657.14	-2,028.49	-380.07	20.86	8,091.51	5,718.50	-2,021.18	-91.06	20.17	296.18	255.30	-102.55	7.244
8,117.77	5,657.13	-2,033.26	-379.94	20.90	8,095.93	5,718.78	-2,025.59	-91.01	20.21	296.18	255.22	-102.61	7.232
8,200.00	5,654.81	-2,115.43	-378.10	21.56	8,174.16	5,722.97	-2,103.69	-89.19	20.83	297.78	255.67	-103.74	7.072
8,205.00	5,654.54	-2,120.42	-378.01	21.60	8,179.09	5,723.18	-2,108.61	-89.04	20.87	297.95	255.78	-103.82	7.065
8,244.17	5,653.36	-2,159.56	-377.00	21.82	8,217.80	5,724.70	-2,147.27	-87.81	21.17	298.84	256.29	-104.40	7.023
8,300.00	5,653.11	-2,215.35	-375.05	21.97	8,275.81	5,726.22	-2,205.23	-85.90	21.65	299.17	256.05	-104.74	6.939
8,389.17	5,652.72	-2,304.47	-371.94	22.24	8,365.86	5,726.50	-2,295.23	-83.25	22.40	298.86	254.79	-104.89	6.781
8,393.51	5,652.71	-2,308.81	-371.79	22.25	8,370.06	5,726.48	-2,299.43	-83.11	22.43	298.86	254.73	-104.89	6.773
8,400.00	5,652.68	-2,315.29	-371.58	22.27	8,376.33	5,726.45	-2,305.70	-82.90	22.49	298.86	254.67	-104.88	6.762
8,439.76	5,652.67	-2,355.04	-370.59	22.40	8,414.00	5,726.18	-2,343.34	-81.49	22.80	299.28	254.63	-104.82	6.703
8,500.00	5,652.79	-2,415.27	-369.47	22.60	8,470.72	5,725.72	-2,400.00	-78.82	23.27	300.80	255.47	-104.63	6.635
8,600.00	5,652.99	-2,515.25	-367.63	22.97	8,575.67	5,725.25	-2,504.79	-73.30	24.15	303.98	257.40	-104.34	6.526

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-3410B - Plan E - Actual Field Surveys_Sperry

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
8,700.00	5,653.20	-2,615.23	-365.79	23.38	8,681.79	5,725.45	-2,610.89	-70.90	25.02	304.37	256.54	-104.31	6.364
8,800.00	5,653.40	-2,715.22	-363.94	23.82	8,783.22	5,726.00	-2,712.31	-69.82	25.85	303.70	254.65	-104.41	6.192
8,900.00	5,653.60	-2,815.20	-362.10	24.29	8,888.01	5,726.64	-2,817.10	-69.91	26.73	301.93	251.60	-104.59	5.999
9,000.00	5,653.81	-2,915.18	-360.25	24.79	8,991.46	5,727.01	-2,920.54	-70.95	27.63	299.21	247.56	-104.76	5.793
9,100.00	5,654.01	-3,015.16	-358.41	25.32	9,094.67	5,726.94	-3,023.69	-74.30	28.52	294.20	241.21	-104.97	5.552
9,200.00	5,654.22	-3,115.15	-356.56	25.88	9,184.98	5,726.90	-3,113.99	-75.60	29.29	290.98	236.73	-105.08	5.364
9,231.59	5,654.28	-3,146.73	-355.98	26.06	9,212.91	5,727.08	-3,141.92	-75.35	29.52	290.73	236.08	-105.11	5.320
9,300.00	5,654.42	-3,215.13	-354.72	26.46	9,283.90	5,727.73	-3,212.89	-74.04	30.14	290.88	235.27	-105.21	5.231
9,400.00	5,654.62	-3,315.11	-352.87	27.06	9,385.03	5,727.34	-3,314.02	-74.52	31.02	288.47	231.42	-105.22	5.057
9,446.25	5,654.72	-3,361.36	-352.02	27.35	9,426.81	5,727.33	-3,355.79	-74.00	31.39	288.17	230.49	-105.21	4.996
9,500.00	5,654.83	-3,415.10	-351.03	27.69	9,480.67	5,727.34	-3,409.64	-72.93	31.85	288.22	229.75	-105.19	4.930
9,584.92	5,655.00	-3,500.00	-349.46	28.23	9,563.24	5,727.14	-3,492.19	-71.07	32.57	288.46	228.75	-105.10	4.831
9,600.00	5,655.06	-3,515.08	-349.21	28.32	9,577.60	5,727.12	-3,506.55	-70.64	32.70	288.64	228.71	-105.08	4.816
9,653.95	5,655.66	-3,569.03	-348.84	28.63	9,629.74	5,727.09	-3,558.65	-68.83	33.15	289.92	229.21	-104.92	4.775
9,700.00	5,656.44	-3,615.07	-348.86	28.91	9,675.04	5,727.05	-3,603.92	-67.08	33.54	291.45	230.02	-104.67	4.744
9,800.00	5,658.14	-3,715.05	-348.90	29.59	9,773.22	5,726.99	-3,702.01	-62.90	34.40	295.18	232.14	-104.14	4.683
9,900.00	5,659.84	-3,815.04	-348.95	30.28	9,879.00	5,726.84	-3,807.71	-58.93	35.34	298.44	233.69	-103.59	4.609
10,000.00	5,661.54	-3,915.02	-348.99	30.99	9,970.00	5,726.23	-3,898.68	-56.40	36.14	300.76	234.43	-103.08	4.534
10,100.00	5,663.24	-4,015.01	-349.03	31.72	10,062.00	5,727.28	-3,990.42	-50.05	36.95	307.39	239.48	-102.71	4.526
10,200.00	5,664.95	-4,114.99	-349.08	32.46	10,177.99	5,726.45	-4,106.13	-42.82	38.00	313.10	243.28	-101.92	4.484
10,300.00	5,666.65	-4,214.98	-349.12	33.21	10,273.70	5,724.80	-4,201.74	-38.99	38.85	316.38	244.83	-101.19	4.422
10,400.00	5,668.35	-4,314.97	-349.16	33.97	10,373.84	5,724.23	-4,301.77	-34.32	39.75	320.57	247.28	-100.63	4.374
10,500.00	5,670.05	-4,414.95	-349.21	34.74	10,480.13	5,723.75	-4,408.00	-30.84	40.68	323.45	248.38	-100.12	4.309
10,600.00	5,671.75	-4,514.94	-349.25	35.53	10,588.54	5,724.40	-4,516.40	-29.91	41.62	324.16	247.34	-99.88	4.220
10,700.00	5,673.45	-4,614.92	-349.29	36.32	10,689.31	5,724.29	-4,617.17	-30.75	42.50	323.07	244.55	-99.59	4.114
10,790.15	5,674.98	-4,705.06	-349.33	37.04	10,776.46	5,723.87	-4,704.32	-30.91	43.26	322.62	242.57	-99.26	4.030
10,800.00	5,675.15	-4,714.91	-349.34	37.12	10,785.96	5,723.83	-4,713.81	-30.88	43.35	322.63	242.40	-99.22	4.022
10,900.00	5,676.85	-4,814.89	-349.38	37.93	10,887.85	5,723.40	-4,815.71	-30.72	44.26	322.49	240.50	-98.83	3.933
11,000.00	5,678.55	-4,914.88	-349.42	38.75	10,989.84	5,722.69	-4,917.69	-31.28	45.17	321.63	237.84	-98.42	3.839
11,085.13	5,680.00	-5,000.00	-349.46	39.46	11,073.73	5,721.88	-5,001.57	-31.70	45.91	320.92	235.64	-98.03	3.763
11,100.00	5,680.21	-5,014.86	-349.47	39.58	11,089.18	5,721.73	-5,017.03	-31.77	46.04	320.81	235.26	-97.97	3.750
11,120.18	5,680.38	-5,035.04	-349.47	39.75	11,110.17	5,721.55	-5,038.01	-31.91	46.22	320.63	234.72	-97.92	3.732
11,200.00	5,680.76	-5,114.86	-349.47	40.41	11,192.32	5,721.04	-5,120.15	-32.97	46.93	319.48	232.19	-97.78	3.660
11,300.00	5,681.24	-5,214.86	-349.47	41.25	11,288.45	5,720.73	-5,216.27	-34.43	47.79	317.89	228.90	-97.68	3.572
11,314.82	5,681.31	-5,229.68	-349.47	41.38	11,301.66	5,721.04	-5,229.47	-34.50	47.91	317.86	228.63	-97.73	3.562
11,400.00	5,681.72	-5,314.86	-349.47	42.10	11,380.87	5,725.11	-5,308.58	-34.02	48.61	318.90	228.38	-98.37	3.523
11,500.00	5,682.20	-5,414.86	-349.46	42.95	11,478.25	5,731.18	-5,405.76	-32.59	49.48	321.24	229.22	-99.32	3.491
11,600.00	5,682.68	-5,514.86	-349.46	43.81	11,574.79	5,736.50	-5,502.12	-30.27	50.33	324.46	230.94	-100.10	3.469
11,700.00	5,683.16	-5,614.86	-349.46	44.67	11,678.50	5,740.52	-5,605.68	-26.93	51.25	328.26	233.11	-100.61	3.450
11,800.00	5,683.64	-5,714.86	-349.46	45.54	11,783.03	5,739.87	-5,710.19	-24.78	52.19	330.07	233.06	-100.34	3.402
11,900.00	5,684.11	-5,814.85	-349.46	46.41	11,880.78	5,735.10	-5,807.77	-22.33	53.08	331.63	232.65	-99.38	3.351
12,000.00	5,684.59	-5,914.85	-349.46	47.29	11,984.56	5,726.88	-5,911.18	-19.28	53.98	333.29	232.20	-97.81	3.297
12,085.15	5,685.00	-6,000.00	-349.46	48.03	12,075.96	5,719.85	-6,002.30	-18.19	54.78	333.44	230.56	-96.52	3.241
12,100.00	5,685.03	-6,014.85	-349.46	48.17	12,092.80	5,718.54	-6,019.10	-18.21	54.93	333.29	230.09	-96.29	3.230
12,198.86	5,683.29	-6,113.69	-349.46	49.04	12,200.13	5,710.91	-6,126.12	-20.60	55.87	330.52	225.37	-95.39	3.143
12,200.00	5,683.25	-6,114.83	-349.46	49.05	12,201.27	5,710.85	-6,127.26	-20.63	55.88	330.48	225.31	-95.39	3.142
12,300.00	5,679.76	-6,214.77	-349.46	49.94	12,294.50	5,709.09	-6,220.41	-23.61	56.69	327.50	220.69	-95.70	3.066
12,329.56	5,678.73	-6,244.31	-349.46	50.20	12,319.59	5,709.50	-6,245.49	-23.91	56.91	327.30	220.04	-95.93	3.052
12,400.00	5,676.27	-6,314.71	-349.46	50.83	12,382.28	5,711.90	-6,308.13	-23.51	57.47	328.30	220.01	-96.72	3.032
12,500.00	5,672.78	-6,414.65	-349.46	51.72	12,479.89	5,717.39	-6,405.56	-21.44	58.35	331.58	221.85	-98.20	3.022
12,600.00	5,669.29	-6,514.59	-349.46	52.62	12,583.49	5,722.54	-6,509.03	-20.09	59.29	334.19	223.00	-99.65	3.006
12,700.00	5,665.80	-6,614.53	-349.46	53.52	12,683.56	5,726.12	-6,609.02	-19.16	60.20	336.36	223.74	-100.81	2.987

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-3410B - Plan E - Actual Field Surveys_Sperry

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft . Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	+E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	+E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
12,800.00	5,662.31	-6,714.47	-349.46	54.42	12,786.67	5,728.43	-6,712.10	-18.21	61.12	338.40	224.30	-101.77	2.966
12,900.00	5,658.82	-6,814.41	-349.46	55.33	12,879.16	5,731.09	-6,804.55	-17.42	61.95	340.61	225.16	-102.71	2.950
13,000.00	5,655.33	-6,914.34	-349.46	56.23	12,979.94	5,734.25	-6,905.24	-14.98	62.86	344.49	227.67	-103.70	2.949
13,100.00	5,651.84	-7,014.28	-349.46	57.14	13,071.04	5,736.20	-6,996.27	-11.95	63.69	349.10	230.89	-104.40	2.953
13,117.21	5,651.24	-7,031.48	-349.46	57.30	13,088.00	5,736.80	-7,013.20	-11.16	63.84	350.18	231.74	-104.56	2.957

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-3409A - Plan C - Actual Field Surveys

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
100.00	100.00	0.04	-0.03	0.09	100.00	100.00	0.04	-0.03	0.10	0.00	< 0	0.00	N/A
177.00	177.00	0.14	-0.10	0.17	177.00	177.00	0.14	-0.10	0.17	0.00	< 0	0.00	N/A
200.00	200.00	0.19	-0.13	0.23	200.00	200.00	0.19	-0.13	0.23	0.00	< 0	0.00	N/A
268.00	268.00	0.65	-0.17	0.38	268.00	268.00	0.65	-0.17	0.38	0.00	< 0	0.00	N/A
300.00	300.00	0.97	-0.19	0.45	300.00	300.00	0.97	-0.19	0.45	0.00	< 0	0.00	N/A
359.00	358.99	1.58	-0.26	0.58	359.00	358.99	1.58	-0.26	0.58	0.00	< 0	0.00	N/A
400.00	399.99	2.02	-0.35	0.67	400.00	399.99	2.02	-0.35	0.67	0.00	< 0	0.00	N/A
451.00	450.99	2.56	-0.54	0.78	451.00	450.99	2.56	-0.54	0.78	0.00	< 0	0.00	N/A
500.00	499.98	3.08	-0.76	0.88	500.00	499.98	3.08	-0.76	0.88	0.00	< 0	0.00	N/A
544.00	543.98	3.57	-0.95	0.97	544.00	543.98	3.57	-0.95	0.97	0.00	< 0	0.00	N/A
600.00	599.98	4.08	-1.19	1.08	600.00	599.98	4.08	-1.19	1.08	0.00	< 0	0.00	N/A
635.00	634.98	4.28	-1.35	1.15	635.00	634.98	4.28	-1.35	1.15	0.00	< 0	0.00	N/A
700.00	699.98	4.48	-1.60	1.28	700.00	699.98	4.48	-1.60	1.28	0.00	< 0	0.00	N/A
727.00	726.98	4.52	-1.68	1.33	727.00	726.98	4.52	-1.68	1.33	0.00	< 0	0.00	N/A
800.00	799.98	4.49	-1.93	1.48	800.00	799.98	4.49	-1.93	1.48	0.00	< 0	0.00	N/A
819.00	818.98	4.44	-2.02	1.52	819.00	818.98	4.44	-2.02	1.52	0.00	< 0	0.00	N/A
900.00	899.98	4.28	-2.30	1.68	900.00	899.98	4.28	-2.30	1.68	0.00	< 0	0.00	N/A
911.00	910.97	4.27	-2.32	1.71	911.00	910.97	4.27	-2.32	1.71	0.00	< 0	0.00	N/A
993.00	992.97	4.89	-2.69	1.88	993.00	992.97	4.89	-2.69	1.88	0.00	< 0	0.00	N/A
1,000.00	999.97	5.00	-2.74	1.89	1,000.00	999.97	5.00	-2.74	1.89	0.00	< 0	0.00	N/A
1,087.00	1,086.93	7.57	-3.42	2.08	1,087.00	1,086.93	7.57	-3.42	2.08	0.00	< 0	0.00	N/A
1,100.00	1,099.91	8.13	-3.53	2.11	1,100.00	1,099.91	8.13	-3.53	2.11	0.00	< 0	0.00	N/A
1,176.00	1,175.78	12.54	-3.97	2.28	1,176.00	1,175.78	12.54	-3.97	2.28	0.00	< 0	0.00	N/A
1,200.00	1,199.72	14.29	-4.09	2.33	1,200.00	1,199.72	14.29	-4.09	2.33	0.00	< 0	0.00	N/A
1,268.00	1,267.49	19.86	-4.76	2.48	1,268.00	1,267.49	19.86	-4.76	2.48	0.00	< 0	0.00	N/A
1,300.00	1,299.35	22.82	-5.26	2.55	1,300.00	1,299.35	22.82	-5.26	2.55	0.00	< 0	0.00	N/A
1,360.00	1,359.01	29.01	-6.57	2.69	1,360.00	1,359.01	29.01	-6.57	2.69	0.00	< 0	0.00	N/A
1,400.00	1,398.73	33.60	-7.76	2.78	1,400.00	1,398.73	33.60	-7.76	2.78	0.00	< 0	0.00	N/A
1,451.00	1,449.28	40.00	-9.75	2.89	1,451.00	1,449.28	40.00	-9.75	2.89	0.00	< 0	0.00	N/A
1,500.00	1,497.77	46.65	-12.21	3.00	1,500.00	1,497.77	46.65	-12.21	3.00	0.00	< 0	0.00	N/A
1,542.00	1,539.25	52.69	-14.82	3.10	1,542.00	1,539.25	52.69	-14.82	3.10	0.00	< 0	0.00	N/A
1,600.00	1,596.52	60.92	-18.80	3.17	1,600.00	1,596.52	60.92	-18.80	3.17	0.00	< 0	0.00	N/A
1,636.00	1,632.11	65.72	-21.34	3.22	1,636.00	1,632.11	65.72	-21.34	3.22	0.00	< 0	0.00	N/A
1,700.00	1,695.37	74.10	-26.29	3.24	1,700.00	1,695.37	74.10	-26.29	3.24	0.00	< 0	0.00	N/A
1,728.00	1,723.02	77.79	-28.69	3.24	1,728.00	1,723.02	77.79	-28.69	3.24	0.00	< 0	0.00	N/A
1,800.00	1,793.94	87.89	-35.93	3.28	1,800.00	1,793.94	87.89	-35.93	3.28	0.00	< 0	0.00	N/A
1,819.00	1,812.59	90.74	-38.13	3.29	1,819.00	1,812.59	90.74	-38.13	3.29	0.00	< 0	0.00	N/A
1,900.00	1,891.68	105.13	-48.01	3.35	1,900.00	1,891.68	105.13	-48.01	3.35	0.00	< 0	0.00	N/A
1,911.00	1,902.35	107.40	-49.38	3.36	1,911.00	1,902.35	107.40	-49.38	3.36	0.00	< 0	0.00	N/A
2,000.00	1,988.11	127.83	-61.59	3.45	2,000.00	1,988.11	127.83	-61.59	3.45	0.00	< 0	0.00	N/A
2,002.00	1,990.02	128.33	-61.89	3.45	2,002.00	1,990.02	128.33	-61.89	3.45	0.00	< 0	0.00	N/A
2,094.00	2,078.12	150.97	-75.65	3.58	2,094.00	2,078.12	150.97	-75.65	3.58	0.00	< 0	0.00	N/A
2,100.00	2,083.87	152.42	-76.55	3.59	2,100.00	2,083.87	152.42	-76.55	3.59	0.00	< 0	0.00	N/A
2,185.00	2,165.55	172.32	-89.10	3.71	2,185.00	2,165.55	172.32	-89.10	3.71	0.00	< 0	0.00	N/A
2,200.00	2,180.01	175.69	-91.28	3.74	2,200.00	2,180.01	175.69	-91.28	3.74	0.00	< 0	0.00	N/A
2,277.00	2,254.41	192.13	-102.30	3.86	2,277.00	2,254.41	192.13	-102.30	3.86	0.00	< 0	0.00	N/A
2,300.00	2,276.71	196.79	-105.54	3.90	2,300.00	2,276.71	196.79	-105.54	3.90	0.00	< 0	0.00	N/A
2,368.00	2,342.75	210.01	-114.87	4.02	2,368.00	2,342.75	210.01	-114.87	4.02	0.00	< 0	0.00	N/A
2,400.00	2,373.80	216.29	-119.37	4.09	2,400.00	2,373.80	216.29	-119.37	4.09	0.00	< 0	0.00	N/A
2,459.00	2,430.64	229.13	-128.60	4.20	2,459.00	2,430.64	229.13	-128.60	4.20	0.00	< 0	0.00	N/A
2,500.00	2,469.97	238.48	-135.45	4.29	2,500.00	2,469.97	238.48	-135.45	4.29	0.00	< 0	0.00	N/A
2,551.00	2,518.97	249.71	-144.02	4.40	2,551.00	2,518.97	249.71	-144.02	4.40	0.00	< 0	0.00	N/A

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-3409A - Plan C - Actual Field Surveys

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft . Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
2,600.00	2,566.13	260.20	-152.23	4.51	2,600.00	2,566.13	260.20	-152.23	4.51	0.00	< 0	0.00	N/A
2,642.00	2,606.60	269.03	-159.16	4.61	2,642.00	2,606.60	269.03	-159.16	4.61	0.00	< 0	0.00	N/A
2,700.00	2,662.37	281.98	-168.45	4.74	2,700.00	2,662.37	281.98	-168.45	4.74	0.00	< 0	0.00	N/A
2,733.00	2,693.94	290.09	-173.55	4.82	2,733.00	2,693.94	290.09	-173.55	4.82	0.00	< 0	0.00	N/A
2,800.00	2,758.00	306.84	-183.78	4.99	2,800.00	2,758.00	306.84	-183.78	4.99	0.00	< 0	0.00	N/A
2,825.00	2,781.94	312.96	-187.61	5.05	2,825.00	2,781.94	312.96	-187.61	5.05	0.00	< 0	0.00	N/A
2,900.00	2,854.15	330.61	-197.49	5.24	2,900.00	2,854.15	330.61	-197.49	5.24	0.00	< 0	0.00	N/A
2,917.00	2,870.61	334.46	-199.29	5.28	2,917.00	2,870.61	334.46	-199.29	5.28	0.00	< 0	0.00	N/A
3,000.00	2,951.33	352.00	-207.39	5.48	3,000.00	2,951.33	352.00	-207.39	5.48	0.00	< 0	0.00	N/A
3,008.00	2,959.14	353.58	-208.14	5.50	3,008.00	2,959.14	353.58	-208.14	5.50	0.00	< 0	0.00	N/A
3,100.00	3,049.28	369.97	-216.48	5.71	3,100.00	3,049.28	369.97	-216.48	5.71	0.00	< 0	0.00	N/A
3,192.00	3,139.53	386.26	-223.69	5.91	3,192.00	3,139.53	386.26	-223.69	5.91	0.00	< 0	0.00	N/A
3,200.00	3,147.36	387.81	-224.25	5.92	3,200.00	3,147.36	387.81	-224.25	5.92	0.00	< 0	0.00	N/A
3,283.00	3,228.60	403.78	-230.04	6.11	3,283.00	3,228.60	403.78	-230.04	6.11	0.00	< 0	0.00	N/A
3,300.00	3,245.24	407.04	-231.22	6.15	3,300.00	3,245.24	407.04	-231.22	6.15	0.00	< 0	0.00	N/A
3,375.00	3,318.68	421.38	-236.36	6.33	3,375.00	3,318.68	421.38	-236.36	6.33	0.00	< 0	0.00	N/A
3,400.00	3,343.16	426.15	-238.07	6.39	3,400.00	3,343.16	426.15	-238.07	6.39	0.00	< 0	0.00	N/A
3,467.00	3,408.76	438.91	-242.86	6.54	3,467.00	3,408.76	438.91	-242.86	6.54	0.00	< 0	0.00	N/A
3,500.00	3,441.06	445.20	-245.33	6.62	3,500.00	3,441.06	445.20	-245.33	6.62	0.00	< 0	0.00	N/A
3,558.00	3,497.80	456.33	-249.84	6.76	3,558.00	3,497.80	456.33	-249.84	6.76	0.00	< 0	0.00	N/A
3,600.00	3,538.88	464.38	-253.24	6.86	3,600.00	3,538.88	464.38	-253.24	6.86	0.00	< 0	0.00	N/A
3,649.00	3,586.82	473.66	-257.33	6.98	3,649.00	3,586.82	473.66	-257.33	6.98	0.00	< 0	0.00	N/A
3,700.00	3,636.73	483.21	-261.68	7.11	3,700.00	3,636.73	483.21	-261.68	7.11	0.00	< 0	0.00	N/A
3,741.00	3,676.87	490.81	-265.20	7.21	3,741.00	3,676.87	490.81	-265.20	7.21	0.00	< 0	0.00	N/A
3,800.00	3,734.66	501.48	-270.45	7.36	3,800.00	3,734.66	501.48	-270.45	7.36	0.00	< 0	0.00	N/A
3,832.00	3,766.02	507.10	-273.43	7.44	3,832.00	3,766.02	507.10	-273.43	7.44	0.00	< 0	0.00	N/A
3,900.00	3,832.67	518.90	-279.93	7.60	3,900.00	3,832.67	518.90	-279.93	7.60	0.00	< 0	0.00	N/A
3,924.00	3,856.19	523.08	-282.23	7.66	3,924.00	3,856.19	523.08	-282.23	7.66	0.00	< 0	0.00	N/A
4,000.00	3,930.33	538.42	-288.78	7.86	4,000.00	3,930.33	538.42	-288.78	7.86	0.00	< 0	0.00	N/A
4,015.00	3,944.87	541.94	-289.89	7.89	4,015.00	3,944.87	541.94	-289.89	7.89	0.00	< 0	0.00	N/A
4,100.00	4,026.80	563.67	-296.14	8.13	4,100.00	4,026.80	563.67	-296.14	8.13	0.00	< 0	0.00	N/A
4,106.00	4,032.55	565.30	-296.59	8.14	4,106.00	4,032.55	565.30	-296.59	8.14	0.00	< 0	0.00	N/A
4,197.00	4,120.02	589.46	-303.49	8.41	4,197.00	4,120.02	589.46	-303.49	8.41	0.00	< 0	0.00	N/A
4,200.00	4,122.91	590.23	-303.72	8.42	4,200.00	4,122.91	590.23	-303.72	8.42	0.00	< 0	0.00	N/A
4,289.00	4,208.82	612.55	-310.21	8.67	4,289.00	4,208.82	612.55	-310.21	8.67	0.00	< 0	0.00	N/A
4,300.00	4,219.46	615.22	-310.98	8.70	4,300.00	4,219.46	615.22	-310.98	8.70	0.00	< 0	0.00	N/A
4,380.00	4,297.13	633.52	-316.60	8.93	4,380.00	4,297.13	633.52	-316.60	8.93	0.00	< 0	0.00	N/A
4,400.00	4,316.63	637.77	-317.98	8.98	4,400.00	4,316.63	637.77	-317.98	8.98	0.00	< 0	0.00	N/A
4,473.00	4,388.08	651.93	-322.68	9.17	4,473.00	4,388.08	651.93	-322.68	9.17	0.00	< 0	0.00	N/A
4,500.00	4,414.61	656.70	-324.27	9.23	4,500.00	4,414.61	656.70	-324.27	9.23	0.00	< 0	0.00	N/A
4,563.00	4,476.63	667.24	-327.62	9.39	4,563.00	4,476.63	667.24	-327.62	9.39	0.00	< 0	0.00	N/A
4,600.00	4,513.16	672.88	-329.35	9.47	4,600.00	4,513.16	672.88	-329.35	9.47	0.00	< 0	0.00	N/A
4,655.00	4,567.64	680.10	-331.57	9.60	4,655.00	4,567.64	680.10	-331.57	9.60	0.00	< 0	0.00	N/A
4,700.00	4,612.32	685.20	-333.13	9.69	4,700.00	4,612.32	685.20	-333.13	9.69	0.00	< 0	0.00	N/A
4,747.00	4,659.05	690.02	-334.61	9.79	4,747.00	4,659.05	690.02	-334.61	9.79	0.00	< 0	0.00	N/A
4,800.00	4,711.86	694.17	-336.13	9.88	4,800.00	4,711.86	694.17	-336.13	9.88	0.00	< 0	0.00	N/A
4,839.00	4,750.80	695.95	-337.19	9.96	4,839.00	4,750.80	695.95	-337.19	9.96	0.00	< 0	0.00	N/A
4,900.00	4,811.78	696.85	-338.14	10.05	4,900.00	4,811.78	696.85	-338.14	10.05	0.00	< 0	0.00	N/A
4,931.00	4,842.78	696.50	-338.13	10.09	4,931.00	4,842.78	696.50	-338.13	10.09	0.00	< 0	0.00	N/A
5,000.00	4,911.75	694.54	-337.59	10.18	5,000.00	4,911.75	694.54	-337.59	10.18	0.00	< 0	0.00	N/A
5,023.00	4,934.73	693.63	-337.35	10.21	5,023.00	4,934.73	693.63	-337.35	10.21	0.00	< 0	0.00	N/A
5,100.00	5,011.59	689.06	-336.40	10.30	5,100.00	5,011.59	689.06	-336.40	10.30	0.00	< 0	0.00	N/A

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-3409A - Plan C - Actual Field Surveys

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft . Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
5,115.00	5,026.54	687.87	-336.20	10.32	5,115.00	5,026.54	687.87	-336.20	10.32	0.00	< 0	0.00	N/A
5,146.00	5,057.22	683.54	-336.20	10.34	5,146.00	5,057.22	683.54	-336.20	10.34	0.00	< 0	0.00	N/A
5,176.00	5,086.39	676.58	-336.48	10.36	5,176.00	5,086.39	676.58	-336.48	10.36	0.00	< 0	0.00	N/A
5,200.00	5,109.28	669.39	-336.66	10.36	5,200.00	5,109.28	669.39	-336.66	10.36	0.00	< 0	0.00	N/A
5,206.00	5,114.93	667.36	-336.72	10.36	5,206.00	5,114.93	667.36	-336.72	10.36	0.00	< 0	0.00	N/A
5,238.00	5,144.15	654.39	-337.45	10.35	5,238.00	5,144.15	654.39	-337.45	10.35	0.00	< 0	0.00	N/A
5,268.00	5,170.13	639.46	-338.68	10.34	5,268.00	5,170.13	639.46	-338.68	10.34	0.00	< 0	0.00	N/A
5,299.00	5,195.92	622.32	-340.13	10.31	5,299.00	5,195.92	622.32	-340.13	10.31	0.00	< 0	0.00	N/A
5,300.00	5,196.73	621.75	-340.18	10.31	5,300.00	5,196.73	621.75	-340.18	10.31	0.00	< 0	0.00	N/A
5,329.00	5,220.11	604.64	-341.48	10.27	5,329.00	5,220.11	604.64	-341.48	10.27	0.00	< 0	0.00	N/A
5,359.00	5,243.93	586.43	-342.58	10.24	5,359.00	5,243.93	586.43	-342.58	10.24	0.00	< 0	0.00	N/A
5,389.00	5,267.55	567.96	-343.56	10.20	5,389.00	5,267.55	567.96	-343.56	10.20	0.00	< 0	0.00	N/A
5,400.00	5,276.11	561.07	-344.00	10.19	5,400.00	5,276.11	561.07	-344.00	10.19	0.00	< 0	0.00	N/A
5,420.00	5,291.47	548.31	-345.03	10.17	5,420.00	5,291.47	548.31	-345.03	10.17	0.00	< 0	0.00	N/A
5,451.00	5,314.73	527.89	-346.79	10.14	5,451.00	5,314.73	527.89	-346.79	10.14	0.00	< 0	0.00	N/A
5,482.00	5,337.45	506.86	-348.40	10.10	5,482.00	5,337.45	506.86	-348.40	10.10	0.00	< 0	0.00	N/A
5,500.00	5,350.53	494.53	-349.31	10.08	5,500.00	5,350.53	494.53	-349.31	10.08	0.00	< 0	0.00	N/A
5,513.00	5,359.98	485.63	-349.99	10.07	5,513.00	5,359.98	485.63	-349.99	10.07	0.00	< 0	0.00	N/A
5,543.00	5,381.68	464.95	-351.26	10.03	5,543.00	5,381.68	464.95	-351.26	10.03	0.00	< 0	0.00	N/A
5,573.00	5,402.95	443.81	-352.09	9.99	5,573.00	5,402.95	443.81	-352.09	9.99	0.00	< 0	0.00	N/A
5,600.00	5,421.44	424.15	-352.46	9.96	5,600.00	5,421.44	424.15	-352.46	9.96	0.00	< 0	0.00	N/A
5,605.00	5,424.79	420.43	-352.47	9.96	5,605.00	5,424.79	420.43	-352.47	9.96	0.00	< 0	0.00	N/A
5,637.00	5,445.64	396.16	-352.23	9.92	5,637.00	5,445.64	396.16	-352.23	9.92	0.00	< 0	0.00	N/A
5,669.00	5,465.87	371.38	-351.62	9.88	5,669.00	5,465.87	371.38	-351.62	9.88	0.00	< 0	0.00	N/A
5,700.00	5,484.83	346.86	-351.02	9.85	5,700.00	5,484.83	346.86	-351.02	9.85	0.00	< 0	0.00	N/A
5,732.00	5,503.39	320.80	-350.50	9.82	5,732.00	5,503.39	320.80	-350.50	9.82	0.00	< 0	0.00	N/A
5,764.00	5,521.35	294.32	-349.90	9.79	5,764.00	5,521.35	294.32	-349.90	9.79	0.00	< 0	0.00	N/A
5,795.00	5,538.21	268.31	-349.46	9.77	5,795.00	5,538.21	268.31	-349.46	9.77	0.00	< 0	0.00	N/A
5,800.00	5,540.84	264.06	-349.43	9.77	5,800.00	5,540.84	264.06	-349.43	9.77	0.00	< 0	0.00	N/A
5,827.00	5,554.39	240.71	-349.35	9.75	5,827.00	5,554.39	240.71	-349.35	9.75	0.00	< 0	0.00	N/A
5,858.00	5,568.43	213.08	-349.71	9.73	5,858.00	5,568.43	213.08	-349.71	9.73	0.00	< 0	0.00	N/A
5,890.00	5,581.05	183.69	-350.47	9.71	5,890.00	5,581.05	183.69	-350.47	9.71	0.00	< 0	0.00	N/A
5,900.00	5,584.66	174.37	-350.72	9.70	5,900.00	5,584.66	174.37	-350.72	9.70	0.00	< 0	0.00	N/A
5,921.00	5,592.06	154.72	-351.27	9.69	5,921.00	5,592.06	154.72	-351.27	9.69	0.00	< 0	0.00	N/A
5,953.00	5,602.81	124.59	-352.04	9.66	5,953.00	5,602.81	124.59	-352.04	9.66	0.00	< 0	0.00	N/A
5,984.00	5,612.02	95.00	-352.61	9.64	5,984.00	5,612.02	95.00	-352.61	9.64	0.00	< 0	0.00	N/A
6,000.00	5,616.27	79.58	-352.87	9.63	6,000.00	5,616.21	79.56	-352.90	9.63	0.07	< 0	25.03	0.004
6,016.00	5,620.39	64.12	-353.19	9.63	6,016.00	5,620.39	64.12	-353.19	9.63	0.00	< 0	0.00	N/A
6,047.00	5,627.67	33.99	-353.66	9.66	6,047.00	5,627.67	33.99	-353.66	9.66	0.00	< 0	0.00	N/A
6,079.00	5,633.60	2.55	-353.73	9.74	6,079.00	5,633.60	2.55	-353.73	9.74	0.00	< 0	0.00	N/A
6,100.00	5,636.74	-18.21	-353.61	9.80	6,100.00	5,636.74	-18.21	-353.61	9.80	0.00	< 0	0.00	N/A
6,112.00	5,638.42	-30.09	-353.51	9.83	6,112.00	5,638.42	-30.09	-353.51	9.83	0.00	< 0	0.00	N/A
6,200.00	5,647.45	-117.61	-352.98	12.96	6,200.00	5,647.45	-117.61	-352.98	12.96	0.00	< 0	0.00	N/A
6,221.00	5,648.72	-138.57	-352.96	13.76	6,221.00	5,648.72	-138.57	-352.96	13.76	0.00	< 0	0.00	N/A
6,300.00	5,653.50	-217.42	-352.57	13.81	6,300.00	5,653.50	-217.42	-352.57	13.81	0.00	< 0	0.00	N/A
6,315.00	5,654.56	-232.38	-352.42	13.82	6,315.00	5,654.56	-232.38	-352.42	13.82	0.00	< 0	0.00	N/A
6,400.00	5,659.08	-317.25	-351.76	13.88	6,400.00	5,659.08	-317.25	-351.76	13.88	0.00	< 0	0.00	N/A
6,410.00	5,659.40	-327.25	-351.72	13.89	6,410.00	5,659.40	-327.25	-351.72	13.89	0.00	< 0	0.00	N/A
6,500.00	5,660.22	-417.24	-352.30	13.95	6,500.00	5,660.22	-417.24	-352.30	13.95	0.00	< 0	0.00	N/A
6,504.00	5,660.17	-421.24	-352.36	13.96	6,504.00	5,660.17	-421.24	-352.36	13.96	0.00	< 0	0.00	N/A
6,599.00	5,659.29	-516.22	-353.62	14.03	6,599.00	5,659.29	-516.22	-353.62	14.03	0.00	< 0	0.00	N/A
6,600.00	5,659.29	-517.22	-353.63	14.03	6,600.00	5,659.29	-517.22	-353.63	14.03	0.00	< 0	0.00	N/A

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-3409A - Plan C - Actual Field Surveys

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre		Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre		Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
		+N/-S (usft)	+E/-W (usft)				+N/-S (usft)	+E/-W (usft)					
6,693.00	5,659.15	-610.17	-356.52	14.10	6,693.00	5,659.15	-610.17	-356.52	14.10	0.00	< 0	0.00	N/A
6,700.00	5,659.17	-617.16	-356.89	14.11	6,700.00	5,659.17	-617.16	-356.89	14.11	0.00	< 0	0.00	N/A
6,788.00	5,659.67	-704.93	-363.18	14.19	6,788.00	5,659.67	-704.93	-363.18	14.19	0.00	< 0	0.00	N/A
6,800.00	5,659.76	-716.89	-364.20	14.20	6,800.00	5,659.76	-716.89	-364.20	14.20	0.00	< 0	0.00	N/A
6,883.00	5,659.59	-799.71	-369.49	14.29	6,883.00	5,659.59	-799.71	-369.49	14.29	0.00	< 0	0.00	N/A
6,900.00	5,659.40	-816.70	-370.16	14.31	6,900.00	5,659.40	-816.70	-370.16	14.31	0.00	< 0	0.00	N/A
6,977.00	5,658.30	-893.68	-371.02	14.40	6,977.00	5,658.30	-893.68	-371.02	14.40	0.00	< 0	0.00	N/A
7,000.00	5,657.93	-916.67	-370.73	14.43	7,000.00	5,657.93	-916.67	-370.73	14.43	0.00	< 0	0.00	N/A
7,072.00	5,656.94	-988.66	-369.82	14.53	7,072.00	5,656.94	-988.66	-369.82	14.53	0.00	< 0	0.00	N/A
7,100.00	5,656.59	-1,016.66	-369.60	14.58	7,100.00	5,656.59	-1,016.66	-369.60	14.58	0.00	< 0	0.00	N/A
7,166.00	5,655.60	-1,082.65	-370.14	14.71	7,166.00	5,655.60	-1,082.65	-370.14	14.71	0.00	< 0	0.00	N/A
7,200.00	5,655.12	-1,116.64	-370.53	14.79	7,200.00	5,655.12	-1,116.64	-370.53	14.79	0.00	< 0	0.00	N/A
7,261.00	5,654.73	-1,177.63	-369.85	14.97	7,261.00	5,654.73	-1,177.63	-369.85	14.97	0.00	< 0	0.00	N/A
7,300.00	5,654.63	-1,216.63	-369.39	15.11	7,300.00	5,654.63	-1,216.63	-369.39	15.11	0.00	< 0	0.00	N/A
7,355.00	5,654.34	-1,271.61	-370.61	15.35	7,355.00	5,654.34	-1,271.61	-370.61	15.35	0.00	< 0	0.00	N/A
7,400.00	5,654.03	-1,316.56	-372.60	15.58	7,400.00	5,654.03	-1,316.56	-372.60	15.58	0.00	< 0	0.00	N/A
7,450.00	5,653.67	-1,366.50	-375.06	15.85	7,450.00	5,653.67	-1,366.50	-375.06	15.85	0.00	< 0	0.00	N/A
7,500.00	5,653.42	-1,416.47	-376.66	16.16	7,500.00	5,653.42	-1,416.47	-376.66	16.16	0.00	< 0	0.00	N/A
7,545.00	5,653.41	-1,461.47	-376.41	16.44	7,545.00	5,653.41	-1,461.47	-376.41	16.44	0.00	< 0	0.00	N/A
7,600.00	5,653.58	-1,516.46	-375.76	16.80	7,600.00	5,653.58	-1,516.46	-375.76	16.80	0.00	< 0	0.00	N/A
7,639.00	5,653.80	-1,555.46	-376.06	17.06	7,639.00	5,653.80	-1,555.46	-376.06	17.06	0.00	< 0	0.00	N/A
7,700.00	5,654.16	-1,616.43	-378.07	17.48	7,700.00	5,654.16	-1,616.43	-378.07	17.48	0.00	< 0	0.00	N/A
7,734.00	5,654.33	-1,650.36	-380.10	17.72	7,734.00	5,654.33	-1,650.36	-380.10	17.72	0.00	< 0	0.00	N/A
7,800.00	5,654.58	-1,716.12	-385.69	18.21	7,800.00	5,654.58	-1,716.12	-385.69	18.21	0.00	< 0	0.00	N/A
7,828.00	5,654.67	-1,743.96	-388.68	18.42	7,828.00	5,654.67	-1,743.96	-388.68	18.42	0.00	< 0	0.00	N/A
7,900.00	5,655.24	-1,815.84	-391.45	18.95	7,900.00	5,655.24	-1,815.84	-391.45	18.95	0.00	< 0	0.00	N/A
7,923.00	5,655.59	-1,838.79	-390.06	19.12	7,923.00	5,655.59	-1,838.79	-390.06	19.12	0.00	< 0	0.00	N/A
8,000.00	5,656.61	-1,915.59	-384.67	19.71	8,000.00	5,656.61	-1,915.59	-384.67	19.71	0.00	< 0	0.00	N/A
8,018.00	5,656.78	-1,933.57	-383.73	19.84	8,018.00	5,656.78	-1,933.57	-383.73	19.84	0.00	< 0	0.00	N/A
8,100.00	5,657.14	-2,015.50	-380.45	20.50	8,100.00	5,657.14	-2,015.50	-380.45	20.50	0.00	< 0	0.00	N/A
8,113.00	5,657.14	-2,028.49	-380.07	20.60	8,113.00	5,657.14	-2,028.49	-380.07	20.60	0.00	< 0	0.00	N/A
8,200.00	5,654.81	-2,115.43	-378.10	21.31	8,200.00	5,654.81	-2,115.43	-378.10	21.31	0.00	< 0	0.00	N/A
8,205.00	5,654.54	-2,120.42	-378.01	21.35	8,205.00	5,654.54	-2,120.42	-378.01	21.35	0.00	< 0	0.00	N/A
8,225.34	5,653.67	-2,140.74	-377.57	21.46	8,225.34	5,653.39	-2,140.73	-377.65	21.50	0.30	< 0	15.08	0.012
8,244.17	5,653.36	-2,159.56	-377.00	21.57	8,244.15	5,652.30	-2,159.50	-377.28	21.65	1.10	< 0	15.07	0.045
8,300.00	5,653.11	-2,215.35	-375.05	21.72	8,299.89	5,648.94	-2,215.12	-376.02	22.09	4.29	< 0	13.02	0.176
8,389.17	5,652.72	-2,304.47	-371.94	21.99	8,389.17	5,644.97	-2,304.29	-373.78	22.78	7.97	< 0	13.31	0.323
8,400.00	5,652.68	-2,315.29	-371.58	22.03	8,399.99	5,644.65	-2,315.10	-373.50	22.86	8.26	< 0	13.40	0.334
8,439.76	5,652.67	-2,355.04	-370.59	22.16	8,439.72	5,643.42	-2,354.80	-372.42	23.17	9.42	< 0	11.19	0.387
8,500.00	5,652.79	-2,415.27	-369.47	22.36	8,499.91	5,641.43	-2,414.93	-370.63	23.65	11.42	< 0	5.76	0.485
8,600.00	5,652.99	-2,515.25	-367.63	22.74	8,599.86	5,638.21	-2,514.76	-367.15	24.45	14.80	< 0	-1.89	0.631
8,700.00	5,653.20	-2,615.23	-365.79	23.15	8,700.01	5,635.21	-2,614.79	-363.18	25.26	18.18	< 0	-8.25	0.743
8,800.00	5,653.40	-2,715.22	-363.94	23.59	8,800.25	5,634.27	-2,714.99	-361.00	26.08	19.36	< 0	-8.75	0.776
8,900.00	5,653.60	-2,815.20	-362.10	24.07	8,900.16	5,633.10	-2,814.88	-359.00	26.91	20.73	< 0	-8.62	0.820
9,000.00	5,653.81	-2,915.18	-360.25	24.57	9,000.47	5,632.68	-2,915.10	-355.10	27.75	21.75	< 0	-13.71	0.804
9,100.00	5,654.01	-3,015.16	-358.41	25.11	9,100.76	5,634.57	-3,015.21	-349.34	28.60	21.45	< 0	-25.01	0.666
9,200.00	5,654.22	-3,115.15	-356.56	25.67	9,200.93	5,636.05	-3,115.34	-347.73	29.46	20.20	< 0	-25.90	0.606
9,300.00	5,654.42	-3,215.13	-354.72	26.25	9,300.86	5,636.37	-3,215.26	-349.03	30.31	18.92	< 0	-17.47	0.630
9,400.00	5,654.62	-3,315.11	-352.87	26.86	9,400.80	5,636.68	-3,315.19	-350.38	31.16	18.11	< 0	-7.89	0.663
9,456.05	5,654.74	-3,371.16	-351.84	27.21	9,456.82	5,636.76	-3,371.19	-351.65	31.65	17.98	< 0	-0.58	0.675
9,500.00	5,654.83	-3,415.10	-351.03	27.49	9,500.72	5,636.84	-3,415.08	-352.80	32.03	18.08	< 0	5.64	0.660
9,584.92	5,655.00	-3,500.00	-349.46	28.04	9,585.49	5,637.01	-3,499.80	-355.68	32.76	19.03	< 0	19.06	0.581

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-3409A - Plan C - Actual Field Surveys

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
9,600.00	5,655.06	-3,515.08	-349.21	28.13	9,600.53	5,637.05	-3,514.83	-356.28	32.89	19.35	< 0	21.42	0.568
9,653.95	5,655.66	-3,569.03	-348.84	28.44	9,654.35	5,637.14	-3,568.59	-358.66	33.35	20.96	< 0	27.95	0.549
9,700.00	5,656.44	-3,615.07	-348.86	28.73	9,700.57	5,637.21	-3,614.78	-360.47	33.75	22.47	< 0	31.14	0.555
9,800.00	5,658.14	-3,715.05	-348.90	29.41	9,801.01	5,637.32	-3,715.21	-360.72	34.61	23.94	< 0	29.58	0.593
9,900.00	5,659.84	-3,815.04	-348.95	30.11	9,901.07	5,637.95	-3,815.27	-359.95	35.47	24.50	< 0	26.70	0.622
10,000.00	5,661.54	-3,915.02	-348.99	30.82	10,000.64	5,638.48	-3,914.83	-360.15	36.34	25.62	< 0	25.84	0.646
10,100.00	5,663.24	-4,015.01	-349.03	31.55	10,100.03	5,637.01	-4,014.20	-361.32	37.20	28.98	< 0	25.11	0.725
10,200.00	5,664.95	-4,114.99	-349.08	32.29	10,199.42	5,633.28	-4,113.52	-361.66	38.06	34.11	< 0	21.70	0.886
10,300.00	5,666.65	-4,214.98	-349.12	33.04	10,300.78	5,630.33	-4,214.82	-361.61	38.94	38.41	0.91	18.98	1.024
10,400.00	5,668.35	-4,314.97	-349.16	33.81	10,400.50	5,629.63	-4,314.55	-361.55	39.81	40.65	3.22	17.75	1.086
10,500.00	5,670.05	-4,414.95	-349.21	34.59	10,500.56	5,628.26	-4,414.60	-361.37	40.69	43.52	6.32	16.24	1.170
10,600.00	5,671.75	-4,514.94	-349.25	35.37	10,601.63	5,628.98	-4,515.65	-360.97	41.55	44.35	7.02	15.32	1.188
10,700.00	5,673.45	-4,614.92	-349.29	36.17	10,701.32	5,630.30	-4,615.34	-360.52	42.42	44.59	7.03	14.59	1.187
10,800.00	5,675.15	-4,714.91	-349.34	36.98	10,800.82	5,630.60	-4,714.83	-360.35	43.30	45.89	8.07	13.89	1.213
10,900.00	5,676.85	-4,814.89	-349.38	37.79	10,900.91	5,630.21	-4,814.92	-360.00	44.18	47.84	9.97	12.83	1.263
11,000.00	5,678.55	-4,914.88	-349.42	38.61	11,001.01	5,630.48	-4,915.02	-359.59	45.06	49.14	11.11	11.95	1.292
11,085.13	5,680.00	-5,000.00	-349.46	39.32	11,086.68	5,631.02	-5,000.69	-359.61	45.82	50.03	11.57	11.71	1.301
11,100.00	5,680.21	-5,014.86	-349.47	39.44	11,101.70	5,631.26	-5,015.71	-359.64	45.95	50.01	11.44	11.73	1.297
11,120.18	5,680.38	-5,035.04	-349.47	39.61	11,122.05	5,631.66	-5,036.05	-359.68	46.13	49.79	11.04	11.84	1.285
11,200.00	5,680.76	-5,114.86	-349.47	40.28	11,201.43	5,633.06	-5,115.42	-360.18	46.83	48.90	9.13	12.65	1.230
11,300.00	5,681.24	-5,214.86	-349.47	41.12	11,301.64	5,634.47	-5,215.62	-360.64	47.72	48.10	7.15	13.44	1.175
11,380.40	5,681.63	-5,295.26	-349.47	41.80	11,381.51	5,635.33	-5,295.48	-360.63	48.43	47.62	6.04	13.56	1.145
11,400.00	5,681.72	-5,314.86	-349.47	41.97	11,400.96	5,635.42	-5,314.93	-360.72	48.61	47.65	5.87	13.67	1.140
11,500.00	5,682.20	-5,414.86	-349.46	42.82	11,500.03	5,634.76	-5,414.00	-361.75	49.50	49.01	5.92	14.52	1.138
11,600.00	5,682.68	-5,514.86	-349.46	43.68	11,599.71	5,632.94	-5,513.65	-362.84	50.39	51.52	7.33	15.05	1.166
11,700.00	5,683.16	-5,614.86	-349.46	44.55	11,699.79	5,630.45	-5,613.70	-363.32	51.25	54.51	9.83	14.74	1.220
11,800.00	5,683.64	-5,714.86	-349.46	45.42	11,800.98	5,629.49	-5,714.88	-363.73	52.13	55.99	10.55	14.76	1.232
11,900.00	5,684.11	-5,814.85	-349.46	46.29	11,902.02	5,630.12	-5,815.90	-362.06	53.01	55.45	10.51	13.13	1.234
12,000.00	5,684.59	-5,914.85	-349.46	47.17	12,002.11	5,632.03	-5,915.95	-359.99	53.88	53.62	9.24	11.32	1.208
12,085.15	5,685.00	-6,000.00	-349.46	47.92	12,086.64	5,632.94	-6,000.45	-357.83	54.63	52.73	9.12	9.14	1.209
12,100.00	5,685.03	-6,014.85	-349.46	48.05	12,101.37	5,632.98	-6,015.17	-357.45	54.76	52.66	9.17	8.73	1.211
12,198.86	5,683.29	-6,113.69	-349.46	48.93	12,200.13	5,632.92	-6,113.89	-354.57	55.65	50.62	7.86	5.80	1.184
12,200.00	5,683.25	-6,114.83	-349.46	48.94	12,201.27	5,632.92	-6,115.03	-354.53	55.66	50.58	7.82	5.76	1.183
12,300.00	5,679.76	-6,214.77	-349.46	49.83	12,302.52	5,634.22	-6,216.19	-350.65	56.55	45.57	3.24	1.50	1.077
12,400.00	5,676.27	-6,314.71	-349.46	50.72	12,401.78	5,636.89	-6,315.33	-346.51	57.43	39.50	< 0	-4.29	0.907
12,500.00	5,672.78	-6,414.65	-349.46	51.62	12,501.00	5,637.93	-6,414.45	-342.27	58.33	35.58	< 0	-11.67	0.739
12,600.00	5,669.29	-6,514.59	-349.46	52.51	12,601.19	5,638.25	-6,514.61	-340.18	59.23	32.39	< 0	-16.65	0.609
12,700.00	5,665.80	-6,614.53	-349.46	53.42	12,700.95	5,637.41	-6,614.35	-341.84	60.13	29.40	< 0	-15.02	0.560
12,800.00	5,662.31	-6,714.47	-349.46	54.32	12,801.22	5,636.11	-6,714.53	-345.95	61.02	26.43	< 0	-7.64	0.555
12,900.00	5,658.82	-6,814.41	-349.46	55.23	12,901.46	5,637.09	-6,814.65	-350.65	61.89	21.76	< 0	3.14	0.469
13,000.00	5,655.33	-6,914.34	-349.46	56.14	13,001.25	5,638.14	-6,914.37	-354.17	62.76	17.82	< 0	15.34	0.324
13,100.00	5,651.84	-7,014.28	-349.46	57.05	13,101.19	5,639.23	-7,014.27	-356.84	63.49	14.61	< 0	30.33	0.199
13,112.22	5,651.41	-7,026.50	-349.46	57.16	13,113.00	5,639.37	-7,026.07	-357.10	63.54	14.27	< 0	32.38	0.187
13,117.21	5,651.24	-7,031.48	-349.46	57.21	13,113.00	5,639.37	-7,026.07	-357.10	63.54	15.12	< 0	32.38	0.198

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W - Razor #27J-2213A - Existing Well - Existing Well_Customer Supplied Surveys

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
100.00	100.00	0.04	-0.03	3.33	83.66	83.66	93.64	1,286.28	5.00	1,289.72	1,280.43	123.00	138.779
177.00	177.00	0.14	-0.10	3.33	165.20	165.20	93.49	1,285.85	5.00	1,289.37	1,280.07	123.01	138.655
200.00	200.00	0.19	-0.13	3.34	189.76	189.75	93.44	1,285.66	5.01	1,289.21	1,279.91	100.70	138.565
268.00	268.00	0.65	-0.17	3.35	262.60	262.59	93.39	1,284.92	5.01	1,288.53	1,279.20	87.98	138.146
300.00	300.00	0.97	-0.19	3.36	294.39	294.38	93.41	1,284.54	5.02	1,288.14	1,278.80	90.22	137.895
359.00	358.99	1.58	-0.26	3.38	352.96	352.94	93.41	1,283.84	5.03	1,287.47	1,278.09	93.95	137.351
400.00	399.99	2.02	-0.35	3.39	393.65	393.64	93.40	1,283.38	5.04	1,287.05	1,277.65	101.27	136.920
451.00	450.99	2.56	-0.54	3.42	444.28	444.26	93.36	1,282.81	5.06	1,286.64	1,277.20	109.84	136.324
500.00	499.98	3.08	-0.76	3.44	492.92	492.89	93.30	1,282.28	5.07	1,286.28	1,276.80	107.83	135.696
544.00	543.98	3.57	-0.95	3.47	536.59	536.57	93.22	1,281.82	5.09	1,285.97	1,276.45	106.11	135.078
600.00	599.98	4.08	-1.19	3.50	592.18	592.15	93.11	1,281.24	5.11	1,285.59	1,276.01	118.90	134.256
635.00	634.98	4.28	-1.35	3.52	626.92	626.89	93.02	1,280.90	5.13	1,285.38	1,275.77	134.25	133.709
700.00	699.98	4.48	-1.60	3.56	691.45	691.41	92.83	1,280.27	5.16	1,284.98	1,275.29	143.47	132.642
727.00	726.98	4.52	-1.68	3.58	718.25	718.21	92.73	1,280.02	5.17	1,284.79	1,275.07	152.64	132.172
800.00	799.98	4.49	-1.93	3.64	789.37	789.33	92.58	1,279.40	5.21	1,284.40	1,274.58	-160.01	130.835
819.00	818.98	4.44	-2.02	3.66	807.87	807.84	92.57	1,279.26	5.22	1,284.34	1,274.50	-155.03	130.477
900.00	899.98	4.28	-2.30	3.73	886.75	886.71	92.68	1,278.71	5.27	1,284.08	1,274.12	-155.58	128.858
910.00	910.97	4.27	-2.32	3.74	897.47	897.43	92.72	1,278.64	5.28	1,284.04	1,274.05	-155.82	128.630
993.00	992.97	4.89	-2.69	3.82	986.32	986.28	93.34	1,277.86	5.34	1,283.69	1,273.56	111.31	126.768
1,000.00	999.97	5.00	-2.74	3.83	993.97	993.92	93.42	1,277.77	5.35	1,283.65	1,273.51	109.04	126.601
1,087.00	1,086.93	7.57	-3.42	3.93	1,082.45	1,082.38	95.10	1,276.57	5.42	1,283.09	1,272.79	97.31	124.510
1,100.00	1,099.91	8.13	-3.53	3.94	1,094.91	1,094.84	95.45	1,276.39	5.43	1,282.99	1,272.66	95.55	124.194
1,176.00	1,175.78	12.54	-3.97	4.03	1,166.70	1,166.57	97.98	1,275.44	5.49	1,282.31	1,271.83	89.45	122.324
1,200.00	1,199.72	14.29	-4.09	4.06	1,189.77	1,189.62	98.98	1,275.17	5.51	1,282.11	1,271.58	91.13	121.775
1,264.66	1,264.16	19.57	-4.72	4.15	1,252.83	1,252.61	101.76	1,274.49	5.54	1,281.88	1,271.24	94.76	120.431
1,268.00	1,267.49	19.86	-4.76	4.15	1,256.09	1,255.87	101.90	1,274.46	5.54	1,281.88	1,271.23	94.92	120.363
1,300.00	1,299.35	22.82	-5.26	4.19	1,287.28	1,287.02	103.29	1,274.15	5.56	1,281.97	1,271.26	96.84	119.703
1,360.00	1,359.01	29.01	-6.57	4.28	1,345.73	1,345.41	105.92	1,273.62	5.59	1,282.52	1,271.69	99.75	118.496
1,400.00	1,398.73	33.60	-7.76	4.33	1,384.66	1,384.30	107.69	1,273.30	5.61	1,283.22	1,272.32	102.44	117.712
1,451.00	1,449.28	40.00	-9.75	4.41	1,434.25	1,433.84	109.96	1,272.94	5.64	1,284.61	1,273.61	105.29	116.757
1,500.00	1,497.77	46.65	-12.21	4.48	1,481.83	1,481.37	112.16	1,272.64	5.67	1,286.53	1,275.43	108.93	115.886
1,542.00	1,539.25	52.69	-14.82	4.55	1,522.55	1,522.05	114.06	1,272.41	5.69	1,288.70	1,277.71	111.62	117.266
1,600.00	1,596.52	60.92	-18.80	4.60	1,578.78	1,578.21	116.71	1,272.15	5.73	1,292.16	1,281.19	114.36	117.890
1,636.00	1,632.11	65.72	-21.34	4.63	1,615.69	1,615.08	118.45	1,271.99	5.74	1,294.41	1,283.41	116.20	117.659
1,700.00	1,695.37	74.10	-26.29	4.64	1,682.31	1,681.62	121.52	1,271.59	5.75	1,298.76	1,287.73	119.92	117.820
1,728.00	1,723.02	77.79	-28.69	4.65	1,712.01	1,711.30	122.86	1,271.35	5.76	1,300.85	1,289.82	121.45	117.896
1,800.00	1,793.94	87.89	-35.93	4.67	1,782.40	1,781.62	126.00	1,270.66	5.79	1,307.17	1,296.11	125.24	118.157
1,819.00	1,812.59	90.74	-38.13	4.68	1,798.00	1,797.19	126.76	1,270.55	5.79	1,309.19	1,298.12	126.05	118.262
1,900.00	1,891.68	105.13	-48.01	4.72	1,868.94	1,868.02	130.68	1,270.50	5.82	1,318.76	1,307.63	119.64	118.442
1,911.00	1,902.35	107.40	-49.38	4.73	1,881.67	1,880.73	131.41	1,270.50	5.83	1,320.10	1,308.96	118.99	118.449
2,000.00	1,988.11	127.83	-61.59	4.79	1,977.93	1,976.84	136.75	1,269.98	5.88	1,331.63	1,320.40	119.54	118.557
2,002.00	1,990.02	128.33	-61.89	4.80	1,979.85	1,978.77	136.85	1,269.97	5.88	1,331.91	1,320.68	119.55	118.562
2,094.00	2,078.12	150.97	-75.65	4.89	2,073.75	2,072.50	142.35	1,269.20	5.94	1,344.96	1,333.60	121.14	118.376
2,100.00	2,083.87	152.42	-76.55	4.89	2,080.48	2,079.21	142.74	1,269.12	5.94	1,345.80	1,334.43	121.26	118.347
2,185.00	2,165.55	172.32	-89.10	4.99	2,161.49	2,160.08	147.46	1,268.01	6.00	1,357.42	1,345.91	122.97	117.957
2,200.00	2,180.01	175.69	-91.28	5.00	2,173.29	2,171.85	148.22	1,267.90	6.01	1,359.51	1,347.98	123.36	117.886
2,277.00	2,254.41	192.13	-102.30	5.10	2,237.40	2,235.79	152.92	1,267.73	6.06	1,370.60	1,358.93	125.47	117.501
2,300.00	2,276.71	196.79	-105.54	5.13	2,259.98	2,258.30	154.63	1,267.74	6.08	1,373.92	1,362.21	125.84	117.327
2,368.00	2,342.75	210.01	-114.87	5.22	2,326.62	2,324.76	159.51	1,267.76	6.14	1,383.56	1,371.72	126.94	116.783
2,400.00	2,373.80	216.29	-119.37	5.27	2,357.68	2,355.75	161.71	1,267.78	6.16	1,388.23	1,376.33	127.03	116.626
2,459.00	2,430.64	229.13	-128.60	5.36	2,415.18	2,413.11	165.67	1,267.83	6.22	1,397.87	1,385.86	127.19	116.436
2,500.00	2,469.97	238.48	-135.45	5.43	2,456.62	2,454.46	168.48	1,267.83	6.26	1,405.03	1,392.93	128.48	116.127

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W - Razor #27J-2213A - Existing Well - Existing Well_Customer Supplied Surveys

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
2,551.00	2,518.97	249.71	-144.02	5.52	2,507.36	2,505.08	171.91	1,267.77	6.31	1,413.95	1,401.74	130.12	115.744
2,600.00	2,566.13	260.20	-152.23	5.61	2,553.90	2,551.52	174.98	1,267.73	6.36	1,422.52	1,410.19	130.49	115.302
2,642.00	2,606.60	269.03	-159.16	5.68	2,593.96	2,591.50	177.55	1,267.71	6.40	1,429.81	1,417.37	130.81	114.915
2,700.00	2,662.37	281.98	-168.45	5.79	2,649.94	2,647.37	180.99	1,267.71	6.46	1,439.72	1,427.12	126.31	114.237
2,733.00	2,693.94	290.09	-173.55	5.86	2,681.82	2,679.19	182.87	1,267.72	6.50	1,445.26	1,432.57	124.07	113.850
2,800.00	2,758.00	306.84	-183.78	6.00	2,748.43	2,745.69	186.75	1,267.68	6.57	1,456.45	1,443.57	125.49	113.080
2,825.00	2,781.94	312.96	-187.61	6.05	2,773.09	2,770.31	188.18	1,267.64	6.60	1,460.62	1,447.67	126.02	112.796
2,900.00	2,854.15	330.61	-197.49	6.21	2,844.03	2,841.13	192.22	1,267.59	6.69	1,471.62	1,458.41	120.49	111.414
2,917.00	2,870.61	334.46	-199.29	6.24	2,860.26	2,857.34	193.12	1,267.58	6.71	1,473.68	1,460.42	118.99	111.088
3,000.00	2,951.33	352.00	-207.39	6.41	2,944.60	2,941.58	197.31	1,267.46	6.81	1,482.98	1,469.47	120.90	109.746
3,008.00	2,959.14	353.58	-208.14	6.43	2,952.88	2,949.85	197.67	1,267.44	6.82	1,483.84	1,470.30	121.10	109.614
3,100.00	3,049.28	369.97	-216.48	6.60	3,050.39	3,047.29	201.49	1,266.81	6.94	1,492.95	1,479.14	124.73	108.085
3,192.00	3,139.53	386.26	-223.69	6.78	3,138.10	3,134.94	204.53	1,266.11	7.06	1,500.94	1,486.85	116.27	106.542
3,200.00	3,147.36	387.81	-224.25	6.80	3,145.22	3,142.05	204.79	1,266.07	7.07	1,501.59	1,487.48	116.34	106.412
3,283.00	3,228.60	403.78	-230.04	6.96	3,219.34	3,216.07	208.52	1,265.95	7.16	1,508.70	1,494.34	117.11	105.102
3,300.00	3,245.24	407.04	-231.22	7.00	3,238.41	3,235.11	209.74	1,265.99	7.19	1,510.20	1,495.78	117.08	104.786
3,375.00	3,318.68	421.38	-236.36	7.15	3,328.82	3,325.34	215.38	1,265.56	7.32	1,516.24	1,501.56	116.96	103.304
3,400.00	3,343.16	426.15	-238.07	7.20	3,356.61	3,353.08	217.09	1,265.26	7.36	1,518.11	1,503.35	117.56	102.835
3,467.00	3,408.76	438.91	-242.86	7.34	3,428.74	3,425.06	221.48	1,264.21	7.47	1,523.13	1,508.15	119.15	101.621
3,500.00	3,441.06	445.20	-245.33	7.41	3,461.68	3,457.94	223.49	1,263.69	7.52	1,525.69	1,510.59	119.75	101.058
3,558.00	3,497.80	456.33	-249.84	7.53	3,500.00	3,496.18	225.85	1,263.07	7.58	1,530.49	1,515.23	120.69	100.284
3,600.00	3,538.88	464.38	-253.24	7.62	3,541.66	3,537.77	228.33	1,262.64	7.65	1,534.28	1,518.88	121.72	99.617
3,649.00	3,586.82	473.66	-257.33	7.73	3,574.72	3,570.77	230.20	1,262.67	7.70	1,539.38	1,523.84	122.86	99.032
3,700.00	3,636.73	483.21	-261.68	7.85	3,615.43	3,611.42	232.34	1,263.06	7.76	1,545.25	1,529.54	123.43	98.388
3,741.00	3,676.87	490.81	-265.20	7.94	3,652.73	3,648.68	234.12	1,263.49	7.82	1,550.11	1,534.27	123.91	97.847
3,800.00	3,734.66	501.48	-270.45	8.07	3,702.27	3,698.17	236.20	1,264.17	7.89	1,557.45	1,541.43	126.53	97.175
3,832.00	3,766.02	507.10	-273.43	8.15	3,726.25	3,722.12	237.17	1,264.64	7.93	1,561.75	1,545.62	127.98	96.861
3,900.00	3,832.67	518.90	-279.93	8.30	3,778.19	3,774.00	239.24	1,266.05	8.01	1,571.52	1,555.18	128.35	96.211
3,924.00	3,856.19	523.08	-282.23	8.35	3,802.38	3,798.16	240.16	1,266.80	8.04	1,575.09	1,558.67	128.51	95.945
4,000.00	3,930.33	538.42	-288.78	8.53	3,899.35	3,895.04	243.49	1,269.43	8.19	1,585.94	1,569.20	118.21	94.753
4,015.00	3,944.87	541.94	-289.89	8.57	3,938.95	3,934.61	244.97	1,269.76	8.26	1,587.70	1,570.87	116.78	94.353
4,100.00	4,026.80	563.67	-296.14	8.78	4,035.44	4,031.03	248.67	1,269.08	8.41	1,596.80	1,579.65	116.17	93.077
4,106.00	4,032.55	565.30	-296.59	8.80	4,041.38	4,036.96	248.87	1,269.03	8.42	1,597.48	1,580.30	116.13	92.997
4,197.00	4,120.02	589.46	-303.49	9.04	4,119.41	4,114.96	251.16	1,268.44	8.54	1,608.01	1,590.50	117.87	91.864
4,200.00	4,122.91	590.23	-303.72	9.05	4,121.94	4,117.49	251.22	1,268.43	8.55	1,608.36	1,590.85	117.88	91.827
4,289.00	4,208.82	612.55	-310.21	9.29	4,205.50	4,201.01	253.58	1,268.25	8.68	1,618.82	1,600.97	118.09	90.689
4,300.00	4,219.46	615.22	-310.98	9.32	4,216.23	4,211.74	253.97	1,268.25	8.70	1,620.08	1,602.19	118.40	90.553
4,380.00	4,297.13	633.52	-316.60	9.53	4,292.28	4,287.73	256.91	1,268.32	8.82	1,629.09	1,610.90	120.76	89.567
4,400.00	4,316.63	637.77	-317.98	9.57	4,311.20	4,306.63	257.61	1,268.36	8.85	1,631.29	1,613.03	121.03	89.323
4,473.00	4,388.08	651.93	-322.68	9.75	4,390.50	4,385.89	260.34	1,268.32	8.99	1,638.58	1,620.03	122.09	88.321
4,500.00	4,414.61	656.70	-324.27	9.82	4,414.00	4,409.38	261.08	1,268.20	9.03	1,640.95	1,622.30	121.80	87.992
4,563.00	4,476.63	667.24	-327.62	9.96	4,414.00	4,409.38	261.08	1,268.20	9.03	1,647.35	1,628.56	120.76	87.672
4,600.00	4,513.16	672.88	-329.35	10.04	4,414.00	4,409.38	261.08	1,268.20	9.03	1,651.85	1,632.98	120.84	87.555
4,655.00	4,567.64	680.10	-331.57	10.16	4,414.00	4,409.38	261.08	1,268.20	9.03	1,659.42	1,640.44	120.97	87.439
4,700.00	4,612.32	685.20	-333.13	10.24	4,414.00	4,409.38	261.08	1,268.20	9.03	1,666.50	1,647.44	121.09	87.420
4,747.00	4,659.05	690.02	-334.61	10.34	4,414.00	4,409.38	261.08	1,268.20	9.03	1,674.89	1,655.74	121.23	87.456
4,800.00	4,711.86	694.17	-336.13	10.43	4,414.00	4,409.38	261.08	1,268.20	9.03	1,685.43	1,666.20	129.60	87.646
4,839.00	4,750.80	695.95	-337.19	10.50	4,414.00	4,409.38	261.08	1,268.20	9.03	1,693.83	1,674.54	144.43	87.824
4,900.00	4,811.78	696.85	-338.14	10.59	4,414.00	4,409.38	261.08	1,268.20	9.03	1,707.54	1,688.18	-138.43	88.189
4,931.00	4,842.78	696.50	-338.13	10.63	4,414.00	4,409.38	261.08	1,268.20	9.03	1,714.63	1,695.23	-58.08	88.398
5,000.00	4,911.75	694.54	-337.59	10.71	4,414.00	4,409.38	261.08	1,268.20	9.03	1,731.52	1,712.04	-59.53	88.891

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W - Razor #27J-2213A - Existing Well - Existing Well_Customer Supplied Surveys

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
5,023.00	4,934.73	693.63	-337.35	10.74	4,414.00	4,409.38	261.08	1,268.20	9.03	1,737.60	1,718.09	-59.72	89.079
5,100.00	5,011.59	689.06	-336.40	10.83	4,414.00	4,409.38	261.08	1,268.20	9.03	1,759.47	1,739.89	-63.70	89.873
5,115.00	5,026.54	687.87	-336.20	10.84	4,414.00	4,409.38	261.08	1,268.20	9.03	1,763.99	1,744.40	-64.05	90.042
5,146.00	5,057.22	683.54	-336.20	10.87	4,414.00	4,409.38	261.08	1,268.20	9.03	1,773.55	1,754.03	-75.38	90.817
5,176.00	5,086.39	676.58	-336.48	10.88	4,414.00	4,409.38	261.08	1,268.20	9.03	1,782.70	1,763.22	-71.28	91.545
5,200.00	5,109.28	669.39	-336.66	10.88	4,414.00	4,409.38	261.08	1,268.20	9.03	1,789.75	1,770.34	-70.70	92.195
5,206.00	5,114.93	667.36	-336.72	10.88	4,414.00	4,409.38	261.08	1,268.20	9.03	1,791.49	1,772.10	-70.53	92.361
5,238.00	5,144.15	654.39	-337.45	10.88	4,414.00	4,409.38	261.08	1,268.20	9.03	1,800.63	1,781.37	-70.67	93.471
5,268.00	5,170.13	639.46	-338.68	10.86	4,414.00	4,409.38	261.08	1,268.20	9.03	1,808.99	1,789.84	-70.00	94.434
5,299.00	5,195.92	622.32	-340.13	10.83	4,414.00	4,409.38	261.08	1,268.20	9.03	1,817.49	1,798.42	-68.99	95.277
5,300.00	5,196.73	621.75	-340.18	10.83	4,414.00	4,409.38	261.08	1,268.20	9.03	1,817.77	1,798.69	-68.95	95.305
5,329.00	5,220.11	604.64	-341.48	10.80	4,414.00	4,409.38	261.08	1,268.20	9.03	1,825.59	1,806.59	-67.89	96.113
5,359.00	5,243.93	586.43	-342.58	10.76	4,414.00	4,409.38	261.08	1,268.20	9.03	1,833.66	1,814.70	-67.03	96.701
5,389.00	5,267.55	567.96	-343.56	10.73	4,414.00	4,409.38	261.08	1,268.20	9.03	1,841.96	1,823.04	-66.99	97.345
5,400.00	5,276.11	561.07	-344.00	10.72	4,414.00	4,409.38	261.08	1,268.20	9.03	1,845.11	1,826.20	-67.33	97.579
5,420.00	5,291.47	548.31	-345.03	10.70	4,414.00	4,409.38	261.08	1,268.20	9.03	1,851.08	1,832.19	-67.89	98.024
5,451.00	5,314.73	527.89	-346.79	10.67	4,414.00	4,409.38	261.08	1,268.20	9.03	1,860.50	1,841.70	-66.90	98.934
5,482.00	5,337.45	506.86	-348.40	10.63	4,414.00	4,409.38	261.08	1,268.20	9.03	1,869.92	1,851.16	-66.27	99.684
5,500.00	5,350.53	494.53	-349.31	10.61	4,414.00	4,409.38	261.08	1,268.20	9.03	1,875.51	1,856.75	-66.39	100.002
5,513.00	5,359.98	485.63	-349.99	10.60	4,414.00	4,409.38	261.08	1,268.20	9.03	1,879.66	1,860.91	-66.47	100.238
5,543.00	5,381.68	464.95	-351.26	10.57	4,414.00	4,409.38	261.08	1,268.20	9.03	1,889.23	1,870.54	-65.12	101.052
5,573.00	5,402.95	443.81	-352.09	10.53	4,414.00	4,409.38	261.08	1,268.20	9.03	1,898.59	1,879.96	-64.19	101.960
5,600.00	5,421.44	424.15	-352.46	10.51	4,414.00	4,409.38	261.08	1,268.20	9.03	1,906.66	1,888.14	-62.67	102.956
5,605.00	5,424.79	420.43	-352.47	10.50	4,414.00	4,409.38	261.08	1,268.20	9.03	1,908.10	1,889.60	-62.40	103.142
5,637.00	5,445.64	396.16	-352.23	10.46	4,414.00	4,409.38	261.08	1,268.20	9.03	1,916.98	1,898.59	-61.18	104.237
5,669.00	5,465.87	371.38	-351.62	10.43	4,414.00	4,409.38	261.08	1,268.20	9.03	1,925.68	1,907.31	-60.77	104.860
5,700.00	5,484.83	346.86	-351.02	10.40	4,414.00	4,409.38	261.08	1,268.20	9.03	1,934.19	1,915.91	-60.40	105.807
5,732.00	5,503.39	320.80	-350.50	10.37	4,414.00	4,409.38	261.08	1,268.20	9.03	1,942.96	1,924.75	-59.91	106.701
5,764.00	5,521.35	294.32	-349.90	10.34	4,414.00	4,409.38	261.08	1,268.20	9.03	1,951.81	1,933.62	-59.64	107.282
5,795.00	5,538.21	268.31	-349.46	10.32	4,414.00	4,409.38	261.08	1,268.20	9.03	1,960.66	1,942.50	-59.56	108.013
5,800.00	5,540.84	264.06	-349.43	10.32	4,414.00	4,409.38	261.08	1,268.20	9.03	1,962.11	1,943.97	-59.46	108.199
5,827.00	5,554.39	240.71	-349.35	10.30	4,414.00	4,409.38	261.08	1,268.20	9.03	1,969.85	1,951.81	-58.91	109.208
5,858.00	5,568.43	213.08	-349.71	10.28	4,414.00	4,409.38	261.08	1,268.20	9.03	1,978.66	1,960.73	-58.44	110.366
5,890.00	5,581.05	183.69	-350.47	10.27	4,414.00	4,409.38	261.08	1,268.20	9.03	1,987.49	1,969.69	-57.54	111.668
5,900.00	5,584.66	174.37	-350.72	10.26	4,414.00	4,409.38	261.08	1,268.20	9.03	1,990.17	1,972.38	-57.47	111.839
5,921.00	5,592.06	154.72	-351.27	10.24	4,414.00	4,409.38	261.08	1,268.20	9.03	1,995.87	1,978.08	-57.31	112.209
5,953.00	5,602.81	124.59	-352.04	10.22	4,414.00	4,409.38	261.08	1,268.20	9.03	2,004.59	1,986.83	-56.93	112.836
5,984.00	5,612.02	95.00	-352.61	10.20	4,414.00	4,409.38	261.08	1,268.20	9.03	2,012.68	1,995.00	-56.12	113.861
6,000.00	5,616.27	79.58	-352.87	10.19	4,414.00	4,409.38	261.08	1,268.20	9.03	2,016.72	1,999.03	-56.05	114.059
6,016.00	5,620.39	64.12	-353.19	10.19	4,414.00	4,409.38	261.08	1,268.20	9.03	2,020.85	2,003.17	-55.97	114.274
6,047.00	5,627.67	33.99	-353.66	10.22	4,414.00	4,409.38	261.08	1,268.20	9.03	2,028.67	2,011.02	-55.40	114.951
6,079.00	5,633.60	2.55	-353.73	10.29	4,414.00	4,409.38	261.08	1,268.20	9.03	2,035.99	2,018.39	-54.69	115.717
6,100.00	5,636.74	-18.21	-353.61	10.35	4,414.00	4,409.38	261.08	1,268.20	9.03	2,040.49	2,022.88	-54.56	115.857
6,112.00	5,638.42	-30.09	-353.51	10.38	4,414.00	4,409.38	261.08	1,268.20	9.03	2,043.06	2,025.43	-54.49	115.934
6,200.00	5,647.45	-117.61	-352.98	13.38	4,414.00	4,409.38	261.08	1,268.20	9.03	2,062.26	2,044.68	-53.77	117.317
6,221.00	5,648.72	-138.57	-352.96	14.16	4,414.00	4,409.38	261.08	1,268.20	9.03	2,066.94	2,049.37	-53.59	117.659
6,300.00	5,653.50	-217.42	-352.57	14.21	4,414.00	4,409.38	261.08	1,268.20	9.03	2,086.12	2,068.44	-53.83	118.008
6,315.00	5,654.56	-232.38	-352.42	14.22	4,414.00	4,409.38	261.08	1,268.20	9.03	2,090.10	2,072.40	-53.88	118.088
6,400.00	5,659.08	-317.25	-351.76	14.27	4,414.00	4,409.38	261.08	1,268.20	9.03	2,113.87	2,096.17	-53.32	119.426
6,410.00	5,659.40	-327.25	-351.72	14.28	4,414.00	4,409.38	261.08	1,268.20	9.03	2,116.78	2,099.08	-53.25	119.591
6,500.00	5,660.22	-417.24	-352.30	14.34	4,414.00	4,409.38	261.08	1,268.20	9.03	2,144.44	2,126.69	-52.44	120.804
6,504.00	5,660.17	-421.24	-352.36	14.35	4,414.00	4,409.38	261.08	1,268.20	9.03	2,145.73	2,127.98	-52.40	120.863

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W - Razor #27J-2213A - Existing Well - Existing Well_Customer Supplied Surveys

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
6,599.00	5,659.29	-516.22	-353.62	14.42	4,414.00	4,409.38	261.08	1,268.20	9.03	2,178.24	2,160.22	-52.63	120.872
6,600.00	5,659.29	-517.22	-353.63	14.42	4,414.00	4,409.38	261.08	1,268.20	9.03	2,178.60	2,160.58	-52.62	120.871
6,693.00	5,659.15	-610.17	-356.52	14.49	4,414.00	4,409.38	261.08	1,268.20	9.03	2,215.55	2,197.25	-52.13	121.067
6,700.00	5,659.17	-617.16	-356.89	14.50	4,414.00	4,409.38	261.08	1,268.20	9.03	2,218.59	2,200.27	-52.09	121.082
6,788.00	5,659.67	-704.93	-363.18	14.57	4,414.00	4,409.38	261.08	1,268.20	9.03	2,259.59	2,240.98	-51.62	121.463
6,800.00	5,659.76	-716.89	-364.20	14.58	4,414.00	4,409.38	261.08	1,268.20	9.03	2,265.51	2,246.87	-51.67	121.555
6,883.00	5,659.59	-799.71	-369.49	14.67	4,414.00	4,409.38	261.08	1,268.20	9.03	2,306.14	2,287.25	-52.00	122.088
6,900.00	5,659.40	-816.70	-370.16	14.69	4,414.00	4,409.38	261.08	1,268.20	9.03	2,314.38	2,295.41	-52.18	122.040
6,977.00	5,658.30	-893.68	-371.02	14.78	4,414.00	4,409.38	261.08	1,268.20	9.03	2,351.23	2,331.92	-52.97	121.767
7,000.00	5,657.93	-916.67	-370.73	14.81	4,414.00	4,409.38	261.08	1,268.20	9.03	2,362.22	2,342.80	-53.01	121.666
7,072.00	5,656.94	-988.66	-369.82	14.91	4,414.00	4,409.38	261.08	1,268.20	9.03	2,397.80	2,378.05	-53.12	121.406
7,100.00	5,656.59	-1,016.66	-369.60	14.95	4,414.00	4,409.38	261.08	1,268.20	9.03	2,412.18	2,392.32	-52.87	121.506
7,166.00	5,655.60	-1,082.65	-370.14	15.08	4,414.00	4,409.38	261.08	1,268.20	9.03	2,447.64	2,427.56	-52.24	121.890
7,200.00	5,655.12	-1,116.64	-370.53	15.16	4,414.00	4,409.38	261.08	1,268.20	9.03	2,466.48	2,446.16	-52.80	121.346
7,261.00	5,654.73	-1,177.63	-369.85	15.34	4,414.00	4,409.38	261.08	1,268.20	9.03	2,500.43	2,479.66	-53.79	120.398
7,300.00	5,654.63	-1,216.63	-369.39	15.48	4,414.00	4,409.38	261.08	1,268.20	9.03	2,522.72	2,501.84	-53.04	120.818
7,355.00	5,654.34	-1,271.61	-370.61	15.71	4,414.00	4,409.38	261.08	1,268.20	9.03	2,555.96	2,534.95	-51.87	121.691
7,400.00	5,654.03	-1,316.56	-372.60	15.93	4,414.00	4,409.38	261.08	1,268.20	9.03	2,584.28	2,563.06	-51.72	121.787
7,450.00	5,653.67	-1,366.50	-375.06	16.20	4,414.00	4,409.38	261.08	1,268.20	9.03	2,616.44	2,594.98	-51.56	121.938
7,500.00	5,653.42	-1,416.47	-376.66	16.49	4,414.00	4,409.38	261.08	1,268.20	9.03	2,648.69	2,626.75	-52.92	120.692
7,545.00	5,653.41	-1,461.47	-376.41	16.77	4,414.00	4,409.38	261.08	1,268.20	9.03	2,677.26	2,654.89	-54.08	119.666
7,600.00	5,653.58	-1,516.46	-375.76	17.12	4,414.00	4,409.38	261.08	1,268.20	9.03	2,712.66	2,690.03	-53.55	119.909
7,639.00	5,653.80	-1,555.46	-376.06	17.38	4,414.00	4,409.38	261.08	1,268.20	9.03	2,738.65	2,715.86	-53.14	120.171
7,700.00	5,654.16	-1,616.43	-378.07	17.80	4,414.00	4,409.38	261.08	1,268.20	9.03	2,780.80	2,757.86	-51.95	121.214
7,734.00	5,654.33	-1,650.36	-380.10	18.03	4,414.00	4,409.38	261.08	1,268.20	9.03	2,805.09	2,782.09	-51.22	121.949
7,800.00	5,654.58	-1,716.12	-385.69	18.51	4,414.00	4,409.38	261.08	1,268.20	9.03	2,853.66	2,830.53	-49.93	123.376
7,828.00	5,654.67	-1,743.96	-388.68	18.72	4,414.00	4,409.38	261.08	1,268.20	9.03	2,874.77	2,851.61	-49.34	124.095
7,900.00	5,655.24	-1,815.84	-391.45	19.24	4,414.00	4,409.38	261.08	1,268.20	9.03	2,927.17	2,902.40	-55.37	118.169
7,923.00	5,655.59	-1,838.79	-390.06	19.41	4,414.00	4,409.38	261.08	1,268.20	9.03	2,942.86	2,917.71	-56.91	116.989
8,000.00	5,656.61	-1,915.59	-384.67	19.98	4,414.00	4,409.38	261.08	1,268.20	9.03	2,995.59	2,970.12	-55.76	117.651
8,018.00	5,656.78	-1,933.57	-383.73	20.12	4,414.00	4,409.38	261.08	1,268.20	9.03	3,008.22	2,982.69	-55.48	117.850
8,100.00	5,657.14	-2,015.50	-380.45	20.77	4,414.00	4,409.38	261.08	1,268.20	9.03	3,066.89	3,041.01	-54.50	118.492
8,113.00	5,657.14	-2,028.49	-380.07	20.87	4,414.00	4,409.38	261.08	1,268.20	9.03	3,076.34	3,050.41	-54.34	118.614
8,200.00	5,654.81	-2,115.43	-378.10	21.56	4,414.00	4,409.38	261.08	1,268.20	9.03	3,139.64	3,113.88	-51.40	121.868
8,205.00	5,654.54	-2,120.42	-378.01	21.60	4,414.00	4,409.38	261.08	1,268.20	9.03	3,143.27	3,117.52	-51.24	122.063
8,244.17	5,653.36	-2,159.56	-377.00	21.83	4,414.00	4,409.38	261.08	1,268.20	9.03	3,172.04	3,145.29	-54.50	118.585
8,300.00	5,653.11	-2,215.35	-375.05	21.98	4,414.00	4,409.38	261.08	1,268.20	9.03	3,213.73	3,186.86	-54.50	119.617
8,389.17	5,652.72	-2,304.47	-371.94	22.25	4,414.00	4,409.38	261.08	1,268.20	9.03	3,281.19	3,254.12	-54.50	121.184
8,400.00	5,652.68	-2,315.29	-371.58	22.28	4,414.00	4,409.38	261.08	1,268.20	9.03	3,289.47	3,262.37	-54.43	121.403
8,439.76	5,652.67	-2,355.04	-370.59	22.41	4,414.00	4,409.38	261.08	1,268.20	9.03	3,320.19	3,293.03	-54.19	122.222
8,500.00	5,652.79	-2,415.27	-369.47	22.61	4,414.00	4,409.38	261.08	1,268.20	9.03	3,367.36	3,340.03	-54.19	123.227
8,600.00	5,652.99	-2,515.25	-367.63	22.98	4,414.00	4,409.38	261.08	1,268.20	9.03	3,446.55	3,418.93	-54.19	124.778
8,700.00	5,653.20	-2,615.23	-365.79	23.39	4,414.00	4,409.38	261.08	1,268.20	9.03	3,526.81	3,498.86	-54.19	126.198
8,800.00	5,653.40	-2,715.22	-363.94	23.83	4,414.00	4,409.38	261.08	1,268.20	9.03	3,608.05	3,579.75	-54.19	127.491
8,900.00	5,653.60	-2,815.20	-362.10	24.30	4,414.00	4,409.38	261.08	1,268.20	9.03	3,690.21	3,661.53	-54.19	128.662
9,000.00	5,653.81	-2,915.18	-360.25	24.80	4,414.00	4,409.38	261.08	1,268.20	9.03	3,773.23	3,744.14	-54.19	129.718
9,100.00	5,654.01	-3,015.16	-358.41	25.33	4,414.00	4,409.38	261.08	1,268.20	9.03	3,857.06	3,827.54	-54.19	130.664
9,200.00	5,654.22	-3,115.15	-356.56	25.88	4,414.00	4,409.38	261.08	1,268.20	9.03	3,941.64	3,911.67	-54.19	131.509
9,300.00	5,654.42	-3,215.13	-354.72	26.46	4,414.00	4,409.38	261.08	1,268.20	9.03	4,026.93	3,996.48	-54.19	132.258
9,400.00	5,654.62	-3,315.11	-352.87	27.07	4,414.00	4,409.38	261.08	1,268.20	9.03	4,112.88	4,081.94	-54.19	132.919
9,500.00	5,654.83	-3,415.10	-351.03	27.69	4,414.00	4,409.38	261.08	1,268.20	9.03	4,199.46	4,168.00	-54.19	133.500
9,584.92	5,655.00	-3,500.00	-349.46	28.24	4,414.00	4,409.38	261.08	1,268.20	9.03	4,273.43	4,241.53	-54.19	133.936

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W - Razor #27J-2213A - Existing Well - Existing Well_Customer Supplied Surveys

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
9,600.00	5,655.06	-3,515.08	-349.21	28.33	4,414.00	4,409.38	261.08	1,268.20	9.03	4,286.63	4,254.63	-54.22	133.959
9,653.95	5,655.66	-3,569.03	-348.84	28.63	4,414.00	4,409.38	261.08	1,268.20	9.03	4,334.26	4,301.95	-54.32	134.119
9,700.00	5,656.44	-3,615.07	-348.86	28.92	4,414.00	4,409.38	261.08	1,268.20	9.03	4,375.23	4,342.67	-54.32	134.407
9,800.00	5,658.14	-3,715.05	-348.90	29.59	4,414.00	4,409.38	261.08	1,268.20	9.03	4,464.53	4,431.42	-54.32	134.838
9,900.00	5,659.84	-3,815.04	-348.95	30.29	4,414.00	4,409.38	261.08	1,268.20	9.03	4,554.28	4,520.60	-54.32	135.209
10,000.00	5,661.54	-3,915.02	-348.99	31.00	4,414.00	4,409.38	261.08	1,268.20	9.03	4,644.45	4,610.18	-54.32	135.527
10,100.00	5,663.24	-4,015.01	-349.03	31.72	4,414.00	4,409.38	261.08	1,268.20	9.03	4,735.01	4,700.14	-54.32	135.796
10,200.00	5,664.95	-4,114.99	-349.08	32.46	4,414.00	4,409.38	261.08	1,268.20	9.03	4,825.95	4,790.47	-54.32	136.021
10,300.00	5,666.65	-4,214.98	-349.12	33.21	4,414.00	4,409.38	261.08	1,268.20	9.03	4,917.23	4,881.13	-54.32	136.207
10,400.00	5,668.35	-4,314.97	-349.16	33.97	4,414.00	4,409.38	261.08	1,268.20	9.03	5,008.85	4,972.12	-54.32	136.357
10,500.00	5,670.05	-4,414.95	-349.21	34.75	4,414.00	4,409.38	261.08	1,268.20	9.03	5,100.79	5,063.41	-54.32	136.475
10,600.00	5,671.75	-4,514.94	-349.25	35.53	4,414.00	4,409.38	261.08	1,268.20	9.03	5,193.02	5,154.99	-54.32	136.565
10,700.00	5,673.45	-4,614.92	-349.29	36.32	4,414.00	4,409.38	261.08	1,268.20	9.03	5,285.54	5,246.85	-54.32	136.629
10,800.00	5,675.15	-4,714.91	-349.34	37.13	4,414.00	4,409.38	261.08	1,268.20	9.03	5,378.32	5,338.97	-54.32	136.670
10,900.00	5,676.85	-4,814.89	-349.38	37.94	4,414.00	4,409.38	261.08	1,268.20	9.03	5,471.36	5,431.33	-54.32	136.691
11,000.00	5,678.55	-4,914.88	-349.42	38.76	4,414.00	4,409.38	261.08	1,268.20	9.03	5,564.64	5,523.93	-54.32	136.693
11,085.13	5,680.00	-5,000.00	-349.46	39.46	4,414.00	4,409.38	261.08	1,268.20	9.03	5,644.23	5,602.94	-54.32	136.684
11,100.00	5,680.21	-5,014.86	-349.47	39.58	4,414.00	4,409.38	261.08	1,268.20	9.03	5,658.14	5,617.00	-53.70	137.561
11,120.18	5,680.38	-5,035.04	-349.47	39.75	4,414.00	4,409.38	261.08	1,268.20	9.03	5,676.99	5,636.08	-52.87	138.766
11,200.00	5,680.76	-5,114.86	-349.47	40.41	4,414.00	4,409.38	261.08	1,268.20	9.03	5,751.61	5,710.16	-52.87	138.739
11,300.00	5,681.24	-5,214.86	-349.47	41.25	4,414.00	4,409.38	261.08	1,268.20	9.03	5,845.29	5,803.15	-52.87	138.694
11,400.00	5,681.72	-5,314.86	-349.47	42.10	4,414.00	4,409.38	261.08	1,268.20	9.03	5,939.17	5,896.34	-52.87	138.637
11,500.00	5,682.20	-5,414.86	-349.46	42.95	4,414.00	4,409.38	261.08	1,268.20	9.03	6,033.26	5,989.72	-52.87	138.571
11,600.00	5,682.68	-5,514.86	-349.46	43.81	4,414.00	4,409.38	261.08	1,268.20	9.03	6,127.52	6,083.28	-52.87	138.496
11,700.00	5,683.16	-5,614.86	-349.46	44.67	4,414.00	4,409.38	261.08	1,268.20	9.03	6,221.97	6,177.02	-52.87	138.414
11,800.00	5,683.64	-5,714.86	-349.46	45.54	4,414.00	4,409.38	261.08	1,268.20	9.03	6,316.59	6,270.92	-52.87	138.324
11,900.00	5,684.11	-5,814.85	-349.46	46.41	4,414.00	4,409.38	261.08	1,268.20	9.03	6,411.37	6,364.99	-52.87	138.230
12,000.00	5,684.59	-5,914.85	-349.46	47.29	4,414.00	4,409.38	261.08	1,268.20	9.03	6,506.31	6,459.20	-52.87	138.130
12,085.15	5,685.00	-6,000.00	-349.46	48.04	4,414.00	4,409.38	261.08	1,268.20	9.03	6,587.26	6,539.54	-52.87	138.043
12,100.00	5,685.03	-6,014.85	-349.46	48.17	4,414.00	4,409.38	261.08	1,268.20	9.03	6,601.39	6,553.94	-52.15	139.122
12,198.86	5,683.29	-6,113.69	-349.46	49.04	4,414.00	4,409.38	261.08	1,268.20	9.03	6,695.09	6,649.42	-47.65	146.584
12,200.00	5,683.25	-6,114.83	-349.46	49.05	4,414.00	4,409.38	261.08	1,268.20	9.03	6,696.17	6,650.49	-47.65	146.583
12,300.00	5,679.76	-6,214.77	-349.46	49.94	4,414.00	4,409.38	261.08	1,268.20	9.03	6,790.76	6,744.39	-47.65	146.455
12,400.00	5,676.27	-6,314.71	-349.46	50.83	4,414.00	4,409.38	261.08	1,268.20	9.03	6,885.50	6,838.44	-47.65	146.325
12,500.00	5,672.78	-6,414.65	-349.46	51.72	4,414.00	4,409.38	261.08	1,268.20	9.03	6,980.38	6,932.63	-47.65	146.193
12,600.00	5,669.29	-6,514.59	-349.46	52.62	4,414.00	4,409.38	261.08	1,268.20	9.03	7,075.41	7,026.97	-47.65	146.061
12,700.00	5,665.80	-6,614.53	-349.46	53.52	4,414.00	4,409.38	261.08	1,268.20	9.03	7,170.57	7,121.43	-47.65	145.927
12,800.00	5,662.31	-6,714.47	-349.46	54.42	4,414.00	4,409.38	261.08	1,268.20	9.03	7,265.86	7,216.02	-47.65	145.792
12,900.00	5,658.82	-6,814.41	-349.46	55.33	4,414.00	4,409.38	261.08	1,268.20	9.03	7,361.27	7,310.74	-47.65	145.658
13,000.00	5,655.33	-6,914.34	-349.46	56.24	4,414.00	4,409.38	261.08	1,268.20	9.03	7,456.81	7,405.57	-47.65	145.523
13,100.00	5,651.84	-7,014.28	-349.46	57.15	4,414.00	4,409.38	261.08	1,268.20	9.03	7,552.46	7,500.51	-47.65	145.388
13,117.21	5,651.24	-7,031.48	-349.46	57.30	4,414.00	4,409.38	261.08	1,268.20	9.03	7,568.93	7,516.86	-47.65	145.365

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-3410B - Plan C - Actual Field Surveys

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
100.00	100.00	0.04	-0.03	3.29	97.38	97.38	-74.94	32.61	3.29	81.79	74.24	-166.37	10.838
177.00	177.00	0.14	-0.10	3.29	174.68	174.68	-74.71	31.88	3.29	81.40	73.84	-165.98	10.777
200.00	200.00	0.19	-0.13	3.30	197.66	197.66	-74.63	31.59	3.30	81.27	73.71	-171.87	10.752
244.28	244.28	0.44	-0.16	3.31	241.88	241.86	-74.52	30.97	3.31	81.17	73.60	-161.70	10.716
268.00	268.00	0.65	-0.17	3.31	265.56	265.55	-74.49	30.61	3.31	81.20	73.61	-159.82	10.705
300.00	300.00	0.97	-0.19	3.32	297.53	297.52	-74.46	30.13	3.32	81.29	73.69	-162.42	10.693
359.00	358.99	1.58	-0.26	3.34	356.49	356.46	-74.36	29.40	3.34	81.53	73.89	-166.70	10.672
400.00	399.99	2.02	-0.35	3.36	397.52	397.50	-74.27	28.96	3.35	81.73	74.05	-174.32	10.654
451.00	450.99	2.56	-0.54	3.38	448.57	448.54	-74.15	28.35	3.37	81.97	74.25	-176.76	10.623
500.00	499.98	3.08	-0.76	3.41	497.82	497.78	-73.96	27.69	3.40	82.14	74.37	-178.42	10.576
544.00	543.98	3.57	-0.95	3.43	542.05	542.01	-73.69	27.00	3.42	82.17	74.35	-179.79	10.512
600.00	599.98	4.08	-1.19	3.46	597.80	597.75	-73.37	26.06	3.46	82.11	74.23	-166.52	10.414
635.00	634.98	4.28	-1.35	3.49	632.63	632.58	-73.27	25.45	3.48	82.06	74.13	-150.86	10.346
679.27	679.24	4.43	-1.53	3.52	676.61	676.55	-73.27	24.72	3.51	82.02	74.02	-145.37	10.264
700.00	699.98	4.48	-1.60	3.53	697.20	697.14	-73.31	24.42	3.53	82.02	74.00	-141.09	10.228
727.00	726.98	4.52	-1.68	3.55	724.02	723.95	-73.40	24.06	3.55	82.06	74.00	-131.70	10.183
800.00	799.98	4.49	-1.93	3.61	797.12	797.05	-73.68	23.16	3.60	82.09	73.92	-83.88	10.042
819.00	818.98	4.44	-2.02	3.62	816.16	816.09	-73.73	22.94	3.62	82.06	73.85	-78.80	9.999
872.67	872.65	4.32	-2.24	3.67	869.67	869.59	-73.89	22.35	3.67	81.99	73.69	-78.78	9.876
900.00	899.98	4.28	-2.30	3.70	896.91	896.83	-74.00	22.11	3.69	82.01	73.65	-78.95	9.819
911.00	910.97	4.27	-2.32	3.71	907.87	907.79	-74.05	22.02	3.70	82.02	73.65	-79.13	9.797
993.00	992.97	4.89	-2.69	3.79	989.94	989.86	-74.40	21.40	3.78	82.87	74.34	-171.65	9.709
1,000.00	999.97	5.00	-2.74	3.80	996.94	996.86	-74.43	21.35	3.79	83.01	74.46	-173.89	9.708
1,087.00	1,086.93	7.57	-3.42	3.89	1,083.83	1,083.74	-74.75	20.78	3.88	85.80	77.07	-174.81	9.821
1,100.00	1,099.91	8.13	-3.53	3.91	1,096.85	1,096.77	-74.80	20.70	3.90	86.40	77.63	-173.13	9.857
1,176.00	1,175.78	12.54	-3.97	4.00	1,174.21	1,174.12	-74.48	19.97	3.99	90.26	81.33	-167.83	10.098
1,200.00	1,199.72	14.29	-4.09	4.03	1,198.76	1,198.67	-74.13	19.61	4.02	91.56	82.56	-169.86	10.178
1,268.00	1,267.49	19.86	-4.76	4.12	1,268.68	1,268.53	-72.31	17.66	4.11	94.95	85.79	-174.90	10.363
1,300.00	1,299.35	22.82	-5.26	4.16	1,301.85	1,301.64	-71.00	16.23	4.15	96.39	87.15	-177.54	10.429
1,360.00	1,359.01	29.01	-6.57	4.25	1,364.24	1,363.83	-67.49	12.62	4.23	98.70	89.30	-178.04	10.503
1,400.00	1,398.73	33.60	-7.76	4.31	1,406.35	1,405.71	-64.24	9.59	4.30	99.87	90.37	-174.27	10.509
1,451.00	1,449.28	40.00	-9.75	4.38	1,460.18	1,459.08	-58.77	5.28	4.37	100.73	91.09	-170.21	10.448
1,500.00	1,497.77	46.65	-12.21	4.46	1,510.97	1,509.27	-52.49	0.71	4.45	101.03	91.25	-165.56	10.331
1,542.00	1,539.25	52.69	-14.82	4.52	1,554.54	1,552.19	-46.44	-3.64	4.52	101.02	91.32	-162.08	10.413
1,600.00	1,596.52	60.92	-18.80	4.57	1,615.85	1,612.38	-36.39	-9.62	4.59	99.54	89.73	-158.70	10.146
1,636.00	1,632.11	65.72	-21.34	4.60	1,653.55	1,649.24	-29.18	-12.93	4.61	97.38	87.51	-156.79	9.869
1,700.00	1,695.37	74.10	-26.29	4.62	1,719.83	1,713.81	-15.00	-17.61	4.63	92.05	82.17	-153.95	9.317
1,728.00	1,723.02	77.79	-28.69	4.62	1,747.78	1,740.97	-8.56	-19.11	4.64	89.38	79.49	-153.32	9.040
1,800.00	1,793.94	87.89	-35.93	4.65	1,818.84	1,810.08	7.79	-21.31	4.66	83.64	73.76	-153.74	8.464
1,819.00	1,812.59	90.74	-38.13	4.65	1,837.57	1,828.31	12.10	-21.53	4.67	82.52	72.64	-154.50	8.353
1,876.30	1,868.62	100.49	-45.08	4.68	1,893.95	1,883.18	25.04	-21.51	4.69	80.96	71.12	-164.58	8.226
1,900.00	1,891.68	105.13	-48.01	4.69	1,917.21	1,905.81	30.38	-21.21	4.70	81.24	71.41	-168.49	8.267
1,911.00	1,902.35	107.40	-49.38	4.70	1,927.99	1,916.31	32.82	-21.06	4.71	81.55	71.74	-170.22	8.305
2,000.00	1,988.11	127.83	-61.59	4.77	2,015.39	2,001.59	51.99	-20.37	4.76	87.88	78.08	-177.64	8.970
2,002.00	1,990.02	128.33	-61.89	4.77	2,017.37	2,003.52	52.41	-20.37	4.76	88.09	78.29	-177.79	8.991
2,094.00	2,078.12	150.97	-75.65	4.86	2,109.05	2,093.09	71.99	-20.52	4.83	97.98	88.07	-176.81	9.884
2,100.00	2,083.87	152.42	-76.55	4.87	2,115.18	2,099.06	73.33	-20.56	4.84	98.60	88.68	-176.51	9.936
2,185.00	2,165.55	172.32	-89.10	4.96	2,201.64	2,183.16	93.38	-21.52	4.92	105.93	95.85	-172.32	10.509
2,200.00	2,180.01	175.69	-91.28	4.98	2,216.62	2,197.69	97.04	-21.69	4.94	107.03	96.91	-171.69	10.583
2,277.00	2,254.41	192.13	-102.30	5.08	2,292.67	2,271.29	116.16	-22.19	5.03	112.19	101.89	-168.33	10.897
2,300.00	2,276.71	196.79	-105.54	5.11	2,314.68	2,292.61	121.62	-22.20	5.06	113.81	103.45	-167.10	10.992
2,368.00	2,342.75	210.01	-114.87	5.20	2,380.20	2,356.28	137.11	-21.84	5.15	119.34	108.81	-163.77	11.332

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-3410B - Plan C - Actual Field Surveys

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft . Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
2,400.00	2,373.80	216.29	-119.37	5.25	2,411.87	2,387.08	144.43	-21.59	5.19	122.43	111.85	162.02	11.565
2,459.00	2,430.64	229.13	-128.60	5.34	2,469.95	2,443.59	157.86	-21.13	5.27	129.93	119.24	159.21	12.152
2,500.00	2,469.97	238.48	-135.45	5.41	2,509.71	2,482.28	167.00	-20.71	5.33	136.05	125.23	158.53	12.578
2,551.00	2,518.97	249.71	-144.02	5.49	2,559.05	2,530.31	178.25	-19.94	5.40	143.90	132.93	157.77	13.113
2,600.00	2,566.13	260.20	-152.23	5.58	2,606.20	2,576.15	189.25	-18.74	5.47	151.73	140.59	155.82	13.618
2,642.00	2,606.60	269.03	-159.16	5.66	2,646.61	2,615.33	199.00	-17.26	5.54	158.67	147.38	154.08	14.053
2,700.00	2,662.37	281.98	-168.45	5.77	2,704.00	2,670.99	212.82	-15.14	5.64	168.59	157.09	147.20	14.667
2,733.00	2,693.94	290.09	-173.55	5.84	2,736.77	2,702.83	220.56	-14.10	5.69	174.36	162.75	143.99	15.023
2,800.00	2,758.00	306.84	-183.78	5.98	2,803.71	2,767.95	235.94	-12.44	5.81	185.88	174.04	143.85	15.698
2,825.00	2,781.94	312.96	-187.61	6.03	2,828.52	2,792.12	241.49	-12.00	5.85	190.05	178.13	143.87	15.933
2,900.00	2,854.15	330.61	-197.49	6.19	2,900.87	2,862.53	258.06	-10.20	5.98	201.17	188.92	136.66	16.413
2,917.00	2,870.61	334.46	-199.29	6.22	2,917.35	2,878.54	261.94	-9.65	6.01	203.32	190.99	134.76	16.489
3,000.00	2,951.33	352.00	-207.39	6.39	2,999.54	2,958.54	280.58	-7.10	6.17	212.88	200.22	134.81	16.816
3,008.00	2,959.14	353.58	-208.14	6.41	3,007.47	2,966.28	282.30	-6.88	6.18	213.75	201.06	134.83	16.842
3,100.00	3,049.28	369.97	-216.48	6.59	3,099.61	3,056.39	301.43	-4.80	6.35	222.73	209.67	136.38	17.059
3,192.00	3,139.53	386.26	-223.69	6.76	3,194.59	3,149.16	321.71	-3.51	6.54	229.80	216.36	125.97	17.102
3,200.00	3,147.36	387.81	-224.25	6.78	3,202.39	3,156.76	323.50	-3.42	6.55	230.34	216.87	125.90	17.100
3,283.00	3,228.60	403.78	-230.04	6.94	3,283.16	3,234.99	343.49	-1.68	6.73	236.37	222.54	124.72	17.091
3,300.00	3,245.24	407.04	-231.22	6.98	3,300.27	3,251.49	348.00	-1.17	6.77	237.69	223.77	124.20	17.086
3,375.00	3,318.68	421.38	-236.36	7.13	3,375.69	3,324.20	367.91	0.84	6.94	243.30	229.03	121.96	17.050
3,400.00	3,343.16	426.15	-238.07	7.18	3,399.81	3,347.41	374.46	1.52	7.00	245.21	230.82	121.86	17.040
3,467.00	3,408.76	438.91	-242.86	7.32	3,465.00	3,409.68	393.56	4.01	7.16	251.03	236.31	121.23	17.046
3,500.00	3,441.06	445.20	-245.33	7.39	3,497.87	3,440.90	403.75	5.43	7.25	254.18	239.28	120.63	17.054
3,558.00	3,497.80	456.33	-249.84	7.52	3,557.43	3,497.44	422.36	7.57	7.41	259.66	244.44	119.54	17.058
3,600.00	3,538.88	464.38	-253.24	7.61	3,597.93	3,535.85	435.14	8.94	7.52	263.80	248.35	119.13	17.078
3,649.00	3,586.82	473.66	-257.33	7.72	3,645.08	3,580.51	450.11	10.71	7.65	269.09	253.38	118.66	17.129
3,700.00	3,636.73	483.21	-261.68	7.83	3,696.87	3,629.59	466.56	12.62	7.79	274.84	258.84	117.49	17.182
3,741.00	3,676.87	490.81	-265.20	7.92	3,738.74	3,669.32	479.72	13.90	7.91	279.36	263.14	116.60	17.218
3,800.00	3,734.66	501.48	-270.45	8.06	3,802.87	3,730.55	498.70	15.00	8.07	285.47	268.92	117.42	17.251
3,832.00	3,766.02	507.10	-273.43	8.13	3,837.53	3,763.93	508.07	15.03	8.17	288.47	271.75	118.07	17.256
3,900.00	3,832.67	518.90	-279.93	8.28	3,908.65	3,832.89	525.43	14.33	8.34	294.35	277.30	117.25	17.261
3,924.00	3,856.19	523.08	-282.23	8.34	3,933.48	3,857.10	530.94	13.90	8.40	296.26	279.09	117.08	17.257
4,000.00	3,930.33	538.42	-288.78	8.52	4,010.95	3,932.80	547.31	12.25	8.58	301.21	283.68	106.41	17.176
4,015.00	3,944.87	541.94	-289.89	8.55	4,025.57	3,947.11	550.29	11.91	8.61	301.96	284.36	104.87	17.152
4,100.00	4,026.80	563.67	-296.14	8.77	4,107.73	4,027.60	566.68	10.41	8.80	306.59	288.61	104.56	17.045
4,106.00	4,032.55	565.30	-296.59	8.78	4,113.68	4,033.43	567.84	10.33	8.81	306.96	288.94	104.57	17.040
4,197.00	4,120.02	589.46	-303.49	9.03	4,205.01	4,123.07	585.33	9.09	9.02	312.67	294.25	106.93	16.968
4,200.00	4,122.91	590.23	-303.72	9.04	4,208.45	4,126.44	585.97	9.03	9.03	312.85	294.41	106.96	16.964
4,289.00	4,208.82	612.55	-310.21	9.28	4,306.88	4,223.06	604.38	5.35	9.25	316.14	297.28	107.67	16.757
4,300.00	4,219.46	615.22	-310.98	9.30	4,317.54	4,233.54	606.33	4.84	9.28	316.41	297.49	108.01	16.728
4,380.00	4,297.13	633.52	-316.60	9.51	4,395.55	4,310.28	619.86	1.33	9.45	318.63	299.37	110.58	16.540
4,400.00	4,316.63	637.77	-317.98	9.56	4,415.44	4,329.89	623.09	0.48	9.49	319.21	299.86	110.89	16.497
4,473.00	4,388.08	651.93	-322.68	9.74	4,488.04	4,401.59	634.01	-2.65	9.65	320.96	301.29	112.00	16.324
4,500.00	4,414.61	656.70	-324.27	9.80	4,514.87	4,428.11	637.86	-3.79	9.70	321.45	301.68	111.74	16.256
4,563.00	4,476.63	667.24	-327.62	9.95	4,577.44	4,490.01	646.67	-6.43	9.83	322.27	302.23	110.93	16.084
4,600.00	4,513.16	672.88	-329.35	10.03	4,614.14	4,526.34	651.63	-7.94	9.91	322.52	302.33	111.02	15.977
4,655.00	4,567.64	680.10	-331.57	10.14	4,668.55	4,580.25	658.62	-10.15	10.02	322.51	302.09	111.00	15.799
4,700.00	4,612.32	685.20	-333.13	10.23	4,712.77	4,624.12	663.96	-11.88	10.11	322.29	301.70	110.97	15.652
4,747.00	4,659.05	690.02	-334.61	10.33	4,757.71	4,668.74	669.04	-13.52	10.20	322.03	301.25	110.92	15.501
4,760.16	4,672.14	691.24	-334.99	10.35	4,769.47	4,680.43	670.28	-13.87	10.22	322.00	301.18	112.29	15.465
4,800.00	4,711.86	694.17	-336.13	10.42	4,805.10	4,715.88	673.75	-14.66	10.28	322.20	301.24	118.70	15.370
4,839.00	4,750.80	695.95	-337.19	10.49	4,840.50	4,751.15	676.76	-15.01	10.35	322.77	301.66	132.96	15.293

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-3410B - Plan C - Actual Field Surveys

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
4,900.00	4,811.78	696.85	-338.14	10.57	4,902.49	4,813.00	680.73	-15.51	10.46	323.06	301.74	-150.80	15.153
4,931.00	4,842.78	696.50	-338.13	10.62	4,933.46	4,843.94	682.05	-15.88	10.51	322.60	301.18	-70.94	15.057
5,000.00	4,911.75	694.54	-337.59	10.70	4,995.94	4,906.41	683.25	-16.00	10.60	321.79	300.17	-73.15	14.882
5,023.00	4,934.73	693.63	-337.35	10.73	5,020.00	4,930.47	683.18	-15.73	10.64	321.78	300.09	-73.58	14.834
5,046.23	4,957.93	692.52	-337.08	10.75	5,039.83	4,950.29	682.94	-15.45	10.66	321.81	300.06	-75.65	14.796
5,100.00	5,011.59	689.06	-336.40	10.81	5,093.95	5,004.40	681.59	-14.74	10.73	321.77	299.88	-78.60	14.697
5,115.00	5,026.54	687.87	-336.20	10.83	5,109.06	5,019.49	681.03	-14.56	10.75	321.73	299.80	-79.18	14.669
5,118.99	5,030.52	687.51	-336.15	10.83	5,113.10	5,023.53	680.87	-14.52	10.76	321.73	299.78	-82.72	14.662
5,146.00	5,057.22	683.54	-336.20	10.86	5,140.65	5,051.05	679.62	-14.23	10.79	322.01	300.00	-93.18	14.632
5,176.00	5,086.39	676.58	-336.48	10.87	5,170.98	5,081.33	677.94	-13.99	10.82	322.50	300.42	-91.18	14.605
5,200.00	5,109.28	669.39	-336.66	10.87	5,201.43	5,111.65	675.24	-14.08	10.85	322.68	300.54	-92.88	14.578
5,206.00	5,114.93	667.36	-336.72	10.87	5,208.29	5,118.45	674.35	-14.19	10.86	322.67	300.53	-93.25	14.571
5,206.79	5,115.66	667.08	-336.73	10.87	5,209.12	5,119.28	674.24	-14.20	10.86	322.67	300.53	-93.35	14.571
5,238.00	5,144.15	654.39	-337.45	10.86	5,243.56	5,153.11	667.92	-14.92	10.88	323.04	300.89	-96.91	14.584
5,268.00	5,170.13	639.46	-338.68	10.85	5,277.08	5,185.70	660.13	-16.13	10.89	323.74	301.61	-99.13	14.630
5,299.00	5,195.92	622.32	-340.13	10.82	5,308.49	5,215.87	651.50	-17.34	10.89	324.93	302.83	-100.38	14.703
5,300.00	5,196.73	621.75	-340.18	10.82	5,309.64	5,216.96	651.15	-17.38	10.89	324.97	302.87	-100.42	14.705
5,329.00	5,220.11	604.64	-341.48	10.79	5,344.65	5,249.86	639.31	-19.02	10.88	325.97	303.91	-101.57	14.779
5,359.00	5,243.93	586.43	-342.58	10.75	5,387.81	5,289.22	621.90	-21.99	10.86	326.14	304.13	-102.46	14.817
5,389.00	5,267.55	567.96	-343.56	10.72	5,417.33	5,315.13	607.96	-24.35	10.83	325.67	303.73	-103.65	14.848
5,396.38	5,273.30	563.35	-343.85	10.71	5,423.09	5,320.08	605.03	-24.75	10.83	325.63	303.72	-104.18	14.864
5,400.00	5,276.11	561.07	-344.00	10.71	5,425.70	5,322.31	603.69	-24.92	10.83	325.65	303.75	-104.43	14.874
5,420.00	5,291.47	548.31	-345.03	10.69	5,440.13	5,334.57	596.12	-25.68	10.81	326.18	304.36	-105.73	14.948
5,451.00	5,314.73	527.89	-346.79	10.66	5,462.25	5,353.07	584.02	-26.25	10.78	328.04	306.28	-105.68	15.080
5,482.00	5,337.45	506.86	-348.40	10.62	5,484.79	5,371.48	571.02	-26.03	10.76	330.77	309.08	-105.65	15.249
5,500.00	5,350.53	494.53	-349.31	10.60	5,498.99	5,382.76	562.40	-25.53	10.74	332.68	311.04	-105.99	15.368
5,513.00	5,359.98	485.63	-349.99	10.59	5,510.00	5,391.30	555.48	-24.97	10.72	334.21	312.60	-106.19	15.462
5,543.00	5,381.68	464.95	-351.26	10.56	5,546.28	5,418.23	531.28	-22.83	10.67	337.39	315.83	-104.79	15.648
5,573.00	5,402.95	443.81	-352.09	10.52	5,600.89	5,454.97	490.97	-21.27	10.57	338.67	317.22	-103.67	15.788
5,600.00	5,421.44	424.15	-352.46	10.49	5,630.21	5,472.65	467.58	-21.01	10.52	338.66	317.26	-102.01	15.826
5,605.00	5,424.79	420.43	-352.47	10.49	5,635.23	5,475.59	463.51	-20.96	10.51	338.61	317.22	-101.73	15.830
5,637.00	5,445.64	396.16	-352.23	10.45	5,665.26	5,493.01	439.05	-20.52	10.46	338.25	316.92	-100.56	15.861
5,669.00	5,465.87	371.38	-351.62	10.42	5,697.21	5,511.37	412.91	-19.92	10.41	337.79	316.53	-99.84	15.885
5,700.00	5,484.83	346.86	-351.02	10.39	5,730.33	5,530.41	385.82	-19.41	10.36	337.40	316.22	-99.94	15.930
5,732.00	5,503.39	320.80	-350.50	10.36	5,766.26	5,550.60	356.10	-19.06	10.31	337.07	315.96	-99.84	15.968
5,764.00	5,521.35	294.32	-349.90	10.33	5,803.73	5,570.29	324.22	-19.01	10.26	336.28	315.22	-99.46	15.965
5,795.00	5,538.21	268.31	-349.46	10.31	5,838.16	5,587.01	294.13	-19.09	10.23	335.41	314.39	-99.62	15.960
5,800.00	5,540.84	264.06	-349.43	10.30	5,843.77	5,589.60	289.16	-19.11	10.23	335.29	314.28	-99.61	15.959
5,827.00	5,554.39	240.71	-349.35	10.29	5,871.12	5,601.79	264.67	-19.21	10.20	334.82	313.84	-99.60	15.960
5,834.81	5,558.09	233.83	-349.38	10.28	5,878.67	5,605.06	257.87	-19.21	10.20	334.79	313.82	-99.72	15.965
5,858.00	5,568.43	213.08	-349.71	10.27	5,902.34	5,615.15	236.45	-19.19	10.18	335.06	314.11	-100.04	15.995
5,890.00	5,581.05	183.69	-350.47	10.25	5,934.00	5,628.49	207.75	-19.18	10.17	335.97	315.03	-100.12	16.049
5,900.00	5,584.66	174.37	-350.72	10.25	5,943.53	5,632.50	199.09	-19.16	10.16	336.35	315.42	-100.21	16.068
5,921.00	5,592.06	154.72	-351.27	10.23	5,965.63	5,641.62	178.96	-19.08	10.16	337.19	316.26	-100.42	16.107
5,953.00	5,602.81	124.59	-352.04	10.21	5,997.71	5,654.21	149.46	-18.97	10.16	338.40	317.44	-100.57	16.149
5,984.00	5,612.02	95.00	-352.61	10.19	6,030.14	5,666.43	119.42	-18.74	10.17	339.65	318.66	-100.74	16.182
6,000.00	5,616.27	79.58	-352.87	10.18	6,048.23	5,672.78	102.49	-18.65	10.17	340.25	319.24	-101.04	16.196
6,016.00	5,620.39	64.12	-353.19	10.17	6,066.53	5,678.94	85.26	-18.63	10.18	340.83	319.80	-101.32	16.206
6,047.00	5,627.67	33.99	-353.66	10.20	6,100.94	5,690.03	52.68	-18.80	10.20	341.69	320.61	-101.56	16.207
6,079.00	5,633.60	2.55	-353.73	10.28	6,145.73	5,703.09	9.86	-19.67	10.23	341.92	320.77	-102.25	16.165
6,100.00	5,636.74	-18.21	-353.61	10.33	6,179.10	5,710.09	-22.72	-21.23	10.27	341.07	319.85	-102.64	16.075
6,112.00	5,638.42	-30.09	-353.51	10.37	6,192.38	5,712.31	-35.80	-21.94	10.29	340.41	319.15	-102.74	16.017

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-3410B - Plan C - Actual Field Surveys

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
6,182.60	5,646.14	-100.26	-353.03	12.73	6,250.00	5,721.04	-92.67	-25.02	12.90	337.21	315.76	-103.40	15.718
6,200.00	5,647.45	-117.61	-352.98	13.37	6,250.00	5,721.04	-92.67	-25.02	12.90	337.70	316.23	-103.39	15.726
6,221.00	5,648.72	-138.57	-352.96	14.15	6,250.00	5,721.04	-92.67	-25.02	12.90	339.59	318.09	-103.31	15.796
6,300.00	5,653.50	-217.42	-352.57	14.20	6,250.00	5,721.04	-92.67	-25.02	12.90	357.53	335.93	-103.47	16.555
6,315.00	5,654.56	-232.38	-352.42	14.21	6,250.00	5,721.04	-92.67	-25.02	12.90	362.68	341.06	-103.52	16.779
6,400.00	5,659.08	-317.25	-351.76	14.27	6,250.00	5,721.04	-92.67	-25.02	12.90	401.76	380.00	-102.48	18.456
6,410.00	5,659.40	-327.25	-351.72	14.27	6,250.00	5,721.04	-92.67	-25.02	12.90	407.36	385.57	-102.32	18.696
6,500.00	5,660.22	-417.24	-352.30	14.34	6,250.00	5,721.04	-92.67	-25.02	12.90	465.32	443.28	-100.56	21.108
6,504.00	5,660.17	-421.24	-352.36	14.34	6,250.00	5,721.04	-92.67	-25.02	12.90	468.17	446.12	-100.47	21.225
6,599.00	5,659.29	-516.22	-353.62	14.41	6,250.00	5,721.04	-92.67	-25.02	12.90	539.97	517.62	-100.90	24.158
6,600.00	5,659.29	-517.22	-353.63	14.41	6,250.00	5,721.04	-92.67	-25.02	12.90	540.76	518.41	-100.92	24.190
6,693.00	5,659.15	-610.17	-356.52	14.48	6,250.00	5,721.04	-92.67	-25.02	12.90	617.99	595.35	-102.26	27.307
6,700.00	5,659.17	-617.16	-356.89	14.49	6,250.00	5,721.04	-92.67	-25.02	12.90	624.05	601.39	-102.36	27.546
6,788.00	5,659.67	-704.93	-363.18	14.56	6,250.00	5,721.04	-92.67	-25.02	12.90	702.39	679.45	-103.89	30.618
6,800.00	5,659.76	-716.89	-364.20	14.58	6,250.00	5,721.04	-92.67	-25.02	12.90	713.32	690.30	-103.43	30.994
6,883.00	5,659.59	-799.71	-369.49	14.66	6,250.00	5,721.04	-92.67	-25.02	12.90	789.13	765.62	-100.32	33.579
6,900.00	5,659.40	-816.70	-370.16	14.68	6,250.00	5,721.04	-92.67	-25.02	12.90	804.68	781.09	-99.94	34.105
6,977.00	5,658.30	-893.68	-371.02	14.77	6,250.00	5,721.04	-92.67	-25.02	12.90	875.01	851.00	-98.35	36.441
7,000.00	5,657.93	-916.67	-370.73	14.80	6,250.00	5,721.04	-92.67	-25.02	12.90	896.03	871.90	-98.51	37.131
7,072.00	5,656.94	-988.66	-369.82	14.90	6,250.00	5,721.04	-92.67	-25.02	12.90	962.39	937.88	-99.04	39.273
7,100.00	5,656.59	-1,016.66	-369.60	14.94	6,250.00	5,721.04	-92.67	-25.02	12.90	988.45	963.78	-99.03	40.076
7,166.00	5,655.60	-1,082.65	-370.14	15.07	6,250.00	5,721.04	-92.67	-25.02	12.90	1,050.64	1,025.60	-99.00	41.951
7,200.00	5,655.12	-1,116.64	-370.53	15.15	6,250.00	5,721.04	-92.67	-25.02	12.90	1,082.89	1,057.65	-99.50	42.913
7,261.00	5,654.73	-1,177.63	-369.85	15.33	6,250.00	5,721.04	-92.67	-25.02	12.90	1,140.55	1,114.97	-100.31	44.582
7,300.00	5,654.63	-1,216.63	-369.39	15.47	6,250.00	5,721.04	-92.67	-25.02	12.90	1,177.58	1,151.77	-100.82	45.633
7,355.00	5,654.34	-1,271.61	-370.61	15.70	6,250.00	5,721.04	-92.67	-25.02	12.90	1,230.52	1,204.42	-101.76	47.133
7,400.00	5,654.03	-1,316.56	-372.60	15.92	6,250.00	5,721.04	-92.67	-25.02	12.90	1,274.22	1,247.83	-101.92	48.282
7,450.00	5,653.67	-1,366.50	-375.06	16.19	6,250.00	5,721.04	-92.67	-25.02	12.90	1,322.92	1,296.22	-102.12	49.538
7,500.00	5,653.42	-1,416.47	-376.66	16.49	6,250.00	5,721.04	-92.67	-25.02	12.90	1,371.53	1,344.45	-101.34	50.643
7,545.00	5,653.41	-1,461.47	-376.41	16.76	6,250.00	5,721.04	-92.67	-25.02	12.90	1,414.95	1,387.54	-100.79	51.618
7,600.00	5,653.58	-1,516.46	-375.76	17.12	6,250.00	5,721.04	-92.67	-25.02	12.90	1,468.05	1,440.34	-102.36	52.979
7,639.00	5,653.80	-1,555.46	-376.06	17.37	6,250.00	5,721.04	-92.67	-25.02	12.90	1,505.96	1,478.07	-103.70	53.988
7,700.00	5,654.16	-1,616.43	-378.07	17.79	6,250.00	5,721.04	-92.67	-25.02	12.90	1,565.68	1,537.52	-105.77	55.598
7,734.00	5,654.33	-1,650.36	-380.10	18.03	6,250.00	5,721.04	-92.67	-25.02	12.90	1,599.17	1,570.92	-107.33	56.600
7,800.00	5,654.58	-1,716.12	-385.69	18.51	6,250.00	5,721.04	-92.67	-25.02	12.90	1,664.48	1,636.15	-110.86	58.748
7,828.00	5,654.67	-1,743.96	-388.68	18.71	6,250.00	5,721.04	-92.67	-25.02	12.90	1,692.29	1,664.03	-112.97	59.885
7,900.00	5,655.24	-1,815.84	-391.45	19.23	6,250.00	5,721.04	-92.67	-25.02	12.90	1,763.04	1,733.17	-102.06	59.028
7,923.00	5,655.59	-1,838.79	-390.06	19.40	6,250.00	5,721.04	-92.67	-25.02	12.90	1,785.19	1,755.09	-100.75	59.322
8,000.00	5,656.61	-1,915.59	-384.67	19.98	6,250.00	5,721.04	-92.67	-25.02	12.90	1,859.29	1,828.59	-100.47	60.568
8,018.00	5,656.78	-1,933.57	-383.73	20.11	6,250.00	5,721.04	-92.67	-25.02	12.90	1,876.73	1,845.89	-100.39	60.854
8,100.00	5,657.14	-2,015.50	-380.45	20.76	6,250.00	5,721.04	-92.67	-25.02	12.90	1,956.55	1,925.00	-99.34	62.015
8,113.00	5,657.14	-2,028.49	-380.07	20.86	6,250.00	5,721.04	-92.67	-25.02	12.90	1,969.25	1,937.59	-99.15	62.193
8,200.00	5,654.81	-2,115.43	-378.10	21.56	6,250.00	5,721.04	-92.67	-25.02	12.90	2,054.51	2,022.12	-84.46	63.422
8,205.00	5,654.54	-2,120.42	-378.01	21.60	6,250.00	5,721.04	-92.67	-25.02	12.90	2,059.42	2,027.03	-83.55	63.581
8,244.17	5,653.36	-2,159.56	-377.00	21.82	6,250.00	5,721.04	-92.67	-25.02	12.90	2,097.84	2,065.20	-98.28	64.270
8,300.00	5,653.11	-2,215.35	-375.05	21.97	6,250.00	5,721.04	-92.67	-25.02	12.90	2,152.52	2,119.73	-98.28	65.644
8,389.17	5,652.72	-2,304.47	-371.94	22.24	6,250.00	5,721.04	-92.67	-25.02	12.90	2,239.98	2,206.92	-98.28	67.765
8,400.00	5,652.68	-2,315.29	-371.58	22.27	6,250.00	5,721.04	-92.67	-25.02	12.90	2,250.61	2,217.54	-98.84	68.068
8,439.76	5,652.67	-2,355.04	-370.59	22.40	6,250.00	5,721.04	-92.67	-25.02	12.90	2,289.72	2,256.66	-101.10	69.252
8,500.00	5,652.79	-2,415.27	-369.47	22.60	6,250.00	5,721.04	-92.67	-25.02	12.90	2,349.08	2,315.82	-101.10	70.619
8,600.00	5,652.99	-2,515.25	-367.63	22.97	6,250.00	5,721.04	-92.67	-25.02	12.90	2,447.72	2,414.09	-101.10	72.786
8,700.00	5,653.20	-2,615.23	-365.79	23.38	6,250.00	5,721.04	-92.67	-25.02	12.90	2,546.46	2,512.43	-101.10	74.833

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-3410B - Plan C - Actual Field Surveys

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
8,800.00	5,653.40	-2,715.22	-363.94	23.82	6,250.00	5,721.04	-92.67	-25.02	12.90	2,645.30	2,610.84	-101.10	76.760
8,900.00	5,653.60	-2,815.20	-362.10	24.29	6,250.00	5,721.04	-92.67	-25.02	12.90	2,744.22	2,709.29	-101.10	78.572
9,000.00	5,653.81	-2,915.18	-360.25	24.79	6,250.00	5,721.04	-92.67	-25.02	12.90	2,843.22	2,807.80	-101.10	80.270
9,100.00	5,654.01	-3,015.16	-358.41	25.32	6,250.00	5,721.04	-92.67	-25.02	12.90	2,942.28	2,906.34	-101.10	81.861
9,200.00	5,654.22	-3,115.15	-356.56	25.88	6,250.00	5,721.04	-92.67	-25.02	12.90	3,041.41	3,004.92	-101.10	83.347
9,300.00	5,654.42	-3,215.13	-354.72	26.46	6,250.00	5,721.04	-92.67	-25.02	12.90	3,140.59	3,103.53	-101.10	84.735
9,400.00	5,654.62	-3,315.11	-352.87	27.06	6,250.00	5,721.04	-92.67	-25.02	12.90	3,239.82	3,202.16	-101.10	86.029
9,500.00	5,654.83	-3,415.10	-351.03	27.69	6,250.00	5,721.04	-92.67	-25.02	12.90	3,339.10	3,300.82	-101.10	87.236
9,584.92	5,655.00	-3,500.00	-349.46	28.23	6,250.00	5,721.04	-92.67	-25.02	12.90	3,423.44	3,384.62	-101.10	88.197
9,600.00	5,655.06	-3,515.08	-349.21	28.32	6,250.00	5,721.04	-92.67	-25.02	12.90	3,438.42	3,399.71	-103.14	88.825
9,653.95	5,655.66	-3,569.03	-348.84	28.63	6,250.00	5,721.04	-92.67	-25.02	12.90	3,492.08	3,454.26	-111.58	92.353
9,700.00	5,656.44	-3,615.07	-348.86	28.91	6,250.00	5,721.04	-92.67	-25.02	12.90	3,537.90	3,499.82	-111.58	92.912
9,800.00	5,658.14	-3,715.05	-348.90	29.59	6,250.00	5,721.04	-92.67	-25.02	12.90	3,637.43	3,598.72	-111.58	93.967
9,900.00	5,659.84	-3,815.04	-348.95	30.28	6,250.00	5,721.04	-92.67	-25.02	12.90	3,736.99	3,697.63	-111.58	94.951
10,000.00	5,661.54	-3,915.02	-348.99	30.99	6,250.00	5,721.04	-92.67	-25.02	12.90	3,836.57	3,796.55	-111.58	95.868
10,100.00	5,663.24	-4,015.01	-349.03	31.72	6,250.00	5,721.04	-92.67	-25.02	12.90	3,936.17	3,895.47	-111.58	96.722
10,200.00	5,664.95	-4,114.99	-349.08	32.46	6,250.00	5,721.04	-92.67	-25.02	12.90	4,035.79	3,994.41	-111.58	97.520
10,300.00	5,666.65	-4,214.98	-349.12	33.21	6,250.00	5,721.04	-92.67	-25.02	12.90	4,135.43	4,093.34	-111.58	98.263
10,400.00	5,668.35	-4,314.97	-349.16	33.97	6,250.00	5,721.04	-92.67	-25.02	12.90	4,235.09	4,192.29	-111.58	98.956
10,500.00	5,670.05	-4,414.95	-349.21	34.74	6,250.00	5,721.04	-92.67	-25.02	12.90	4,334.76	4,291.24	-111.58	99.603
10,600.00	5,671.75	-4,514.94	-349.25	35.53	6,250.00	5,721.04	-92.67	-25.02	12.90	4,434.45	4,390.19	-111.58	100.208
10,700.00	5,673.45	-4,614.92	-349.29	36.32	6,250.00	5,721.04	-92.67	-25.02	12.90	4,534.15	4,489.15	-111.58	100.772
10,800.00	5,675.15	-4,714.91	-349.34	37.12	6,250.00	5,721.04	-92.67	-25.02	12.90	4,633.86	4,588.12	-111.58	101.299
10,900.00	5,676.85	-4,814.89	-349.38	37.93	6,250.00	5,721.04	-92.67	-25.02	12.90	4,733.59	4,687.08	-111.58	101.792
11,000.00	5,678.55	-4,914.88	-349.42	38.75	6,250.00	5,721.04	-92.67	-25.02	12.90	4,833.32	4,786.05	-111.58	102.253
11,085.13	5,680.00	-5,000.00	-349.46	39.46	6,250.00	5,721.04	-92.67	-25.02	12.90	4,918.24	4,870.32	-111.58	102.622
11,100.00	5,680.21	-5,014.86	-349.47	39.58	6,250.00	5,721.04	-92.67	-25.02	12.90	4,933.07	4,884.13	-107.52	100.805
11,120.18	5,680.38	-5,035.04	-349.47	39.75	6,250.00	5,721.04	-92.67	-25.02	12.90	4,953.20	4,903.14	-101.72	98.938
11,200.00	5,680.76	-5,114.86	-349.47	40.41	6,250.00	5,721.04	-92.67	-25.02	12.90	5,032.85	4,982.13	-101.72	99.235
11,300.00	5,681.24	-5,214.86	-349.47	41.25	6,250.00	5,721.04	-92.67	-25.02	12.90	5,132.64	5,081.10	-101.72	99.584
11,400.00	5,681.72	-5,314.86	-349.47	42.10	6,250.00	5,721.04	-92.67	-25.02	12.90	5,232.43	5,180.06	-101.72	99.910
11,500.00	5,682.20	-5,414.86	-349.46	42.95	6,250.00	5,721.04	-92.67	-25.02	12.90	5,332.23	5,279.03	-101.72	100.216
11,600.00	5,682.68	-5,514.86	-349.46	43.81	6,250.00	5,721.04	-92.67	-25.02	12.90	5,432.04	5,378.00	-101.72	100.503
11,700.00	5,683.16	-5,614.86	-349.46	44.67	6,250.00	5,721.04	-92.67	-25.02	12.90	5,531.86	5,476.97	-101.72	100.772
11,800.00	5,683.64	-5,714.86	-349.46	45.54	6,250.00	5,721.04	-92.67	-25.02	12.90	5,631.69	5,575.94	-101.72	101.024
11,900.00	5,684.11	-5,814.85	-349.46	46.41	6,250.00	5,721.04	-92.67	-25.02	12.90	5,731.52	5,674.91	-101.72	101.261
12,000.00	5,684.59	-5,914.85	-349.46	47.29	6,250.00	5,721.04	-92.67	-25.02	12.90	5,831.35	5,773.89	-101.72	101.483
12,085.15	5,685.00	-6,000.00	-349.46	48.03	6,250.00	5,721.04	-92.67	-25.02	12.90	5,916.36	5,858.17	-101.72	101.662
12,100.00	5,685.03	-6,014.85	-349.46	48.17	6,250.00	5,721.04	-92.67	-25.02	12.90	5,931.19	5,872.21	-96.44	100.558
12,198.86	5,683.29	-6,113.69	-349.46	49.04	6,250.00	5,721.04	-92.67	-25.02	12.90	6,029.89	5,975.28	-62.43	110.408
12,200.00	5,683.25	-6,114.83	-349.46	49.05	6,250.00	5,721.04	-92.67	-25.02	12.90	6,031.03	5,976.41	-62.43	110.411
12,300.00	5,679.76	-6,214.77	-349.46	49.94	6,250.00	5,721.04	-92.67	-25.02	12.90	6,130.85	6,075.43	-62.43	110.619
12,400.00	5,676.27	-6,314.71	-349.46	50.83	6,250.00	5,721.04	-92.67	-25.02	12.90	6,230.68	6,174.45	-62.43	110.815
12,500.00	5,672.78	-6,414.65	-349.46	51.72	6,250.00	5,721.04	-92.67	-25.02	12.90	6,330.51	6,273.48	-62.43	111.000
12,600.00	5,669.29	-6,514.59	-349.46	52.62	6,250.00	5,721.04	-92.67	-25.02	12.90	6,430.34	6,372.50	-62.43	111.175
12,700.00	5,665.80	-6,614.53	-349.46	53.52	6,250.00	5,721.04	-92.67	-25.02	12.90	6,530.18	6,471.53	-62.43	111.339
12,800.00	5,662.31	-6,714.47	-349.46	54.42	6,250.00	5,721.04	-92.67	-25.02	12.90	6,630.03	6,570.56	-62.43	111.494
12,900.00	5,658.82	-6,814.41	-349.46	55.33	6,250.00	5,721.04	-92.67	-25.02	12.90	6,729.88	6,669.60	-62.43	111.641
13,000.00	5,655.33	-6,914.34	-349.46	56.23	6,250.00	5,721.04	-92.67	-25.02	12.90	6,829.73	6,768.63	-62.43	111.779
13,100.00	5,651.84	-7,014.28	-349.46	57.14	6,250.00	5,721.04	-92.67	-25.02	12.90	6,929.59	6,867.67	-62.43	111.910
13,117.21	5,651.24	-7,031.48	-349.46	57.30	6,250.00	5,721.04	-92.67	-25.02	12.90	6,946.77	6,884.71	-62.43	111.932

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-3412B - Plan B - Actual Field Surveys

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
100.00	100.00	0.04	-0.03	3.29	96.88	96.88	-74.95	98.40	3.29	123.75	116.20	164.46	16.399
177.00	177.00	0.14	-0.10	3.29	173.78	173.77	-74.75	98.69	3.29	123.97	116.42	164.32	16.414
200.00	200.00	0.19	-0.13	3.30	196.79	196.79	-74.67	98.80	3.30	124.07	116.51	141.96	16.414
268.00	268.00	0.65	-0.17	3.31	264.86	264.86	-74.38	99.14	3.31	124.47	116.89	129.17	16.409
300.00	300.00	0.97	-0.19	3.32	296.78	296.78	-74.23	99.31	3.32	124.72	117.12	131.40	16.405
359.00	358.99	1.58	-0.26	3.34	355.60	355.60	-73.96	99.70	3.34	125.29	117.65	135.11	16.396
400.00	399.99	2.02	-0.35	3.36	396.81	396.80	-73.67	100.04	3.35	125.73	118.05	142.35	16.383
451.00	450.99	2.56	-0.54	3.38	448.11	448.09	-72.98	100.59	3.38	126.23	118.50	150.64	16.347
500.00	499.98	3.08	-0.76	3.41	498.17	498.14	-71.90	101.09	3.40	126.49	118.71	148.21	16.273
544.00	543.98	3.57	-0.95	3.43	543.18	543.13	-70.57	101.34	3.43	126.35	118.53	146.04	16.149
600.00	599.98	4.08	-1.19	3.46	601.02	600.92	-68.11	101.37	3.47	125.49	117.59	158.01	15.895
635.00	634.98	4.28	-1.35	3.49	637.05	636.89	-66.05	101.24	3.50	124.48	116.54	172.65	15.673
700.00	699.98	4.48	-1.60	3.53	702.31	701.98	-61.50	101.11	3.55	122.18	114.14	-179.88	15.201
727.00	726.98	4.52	-1.68	3.55	729.36	728.95	-59.33	101.17	3.57	121.15	113.07	-171.59	14.995
800.00	799.98	4.49	-1.93	3.61	802.19	801.42	-52.24	101.96	3.64	118.45	110.24	-127.45	14.437
819.00	818.98	4.44	-2.02	3.62	821.00	820.11	-50.09	102.33	3.66	117.81	109.57	-123.51	14.300
900.00	899.98	4.28	-2.30	3.70	899.53	897.93	-39.94	105.13	3.74	116.18	107.79	-129.26	13.840
913.81	913.79	4.27	-2.33	3.71	912.83	911.07	-38.04	105.82	3.76	116.13	107.70	-150.37	13.787
911.00	910.97	4.27	-2.32	3.71	909.00	907.29	-38.59	105.61	3.76	116.14	107.72	-130.21	13.800
993.00	992.97	4.89	-2.69	3.79	988.41	985.58	-26.52	110.97	3.85	118.00	109.40	130.66	13.729
1,000.00	999.97	5.00	-2.74	3.80	995.06	992.13	-25.45	111.52	3.86	118.35	109.74	127.86	13.745
1,087.00	1,086.93	7.57	-3.42	3.89	1,077.07	1,072.47	-11.32	119.86	3.96	125.24	116.42	109.68	14.198
1,100.00	1,099.91	8.13	-3.53	3.91	1,091.00	1,086.06	-8.74	121.55	3.98	126.68	117.82	106.87	14.303
1,176.00	1,175.78	12.54	-3.97	4.00	1,161.47	1,154.54	4.97	130.96	4.09	136.36	127.30	95.88	15.058
1,200.00	1,199.72	14.29	-4.09	4.03	1,184.23	1,176.58	9.61	134.26	4.13	139.89	130.77	96.17	15.335
1,268.00	1,267.49	19.86	-4.76	4.12	1,249.10	1,239.21	23.23	144.20	4.24	151.13	141.82	96.38	16.224
1,300.00	1,299.35	22.82	-5.26	4.16	1,279.70	1,268.69	29.82	149.13	4.30	157.01	147.60	96.81	16.687
1,360.00	1,359.01	29.01	-6.57	4.25	1,338.39	1,325.17	42.56	158.65	4.41	168.62	159.03	97.27	17.586
1,400.00	1,398.73	33.60	-7.76	4.31	1,377.83	1,363.14	51.15	165.01	4.48	176.69	166.98	98.62	18.198
1,451.00	1,449.28	40.00	-9.75	4.38	1,428.97	1,412.44	62.18	173.00	4.58	187.17	177.31	100.05	18.973
1,500.00	1,497.77	46.65	-12.21	4.46	1,478.59	1,460.35	72.75	180.38	4.65	197.38	187.38	102.65	19.731
1,542.00	1,539.25	52.69	-14.82	4.52	1,521.57	1,501.91	81.94	186.35	4.70	206.17	196.25	104.59	20.799
1,600.00	1,596.52	60.92	-18.80	4.57	1,580.53	1,558.99	94.64	193.88	4.75	218.09	208.09	106.51	21.805
1,636.00	1,632.11	65.72	-21.34	4.60	1,616.67	1,594.01	102.42	198.26	4.77	225.39	215.46	107.80	22.694
1,700.00	1,695.37	74.10	-26.29	4.62	1,681.35	1,656.82	115.89	205.77	4.80	238.45	228.49	110.56	23.939
1,728.00	1,723.02	77.79	-28.69	4.62	1,709.77	1,684.54	121.29	208.98	4.82	244.20	234.23	111.83	24.481
1,800.00	1,793.94	87.89	-35.93	4.65	1,779.71	1,752.91	133.73	216.85	4.86	259.70	249.68	115.21	25.914
1,819.00	1,812.59	90.74	-38.13	4.65	1,797.83	1,770.63	136.93	218.95	4.87	264.09	254.06	115.98	26.319
1,900.00	1,891.68	105.13	-48.01	4.69	1,873.07	1,844.13	150.16	228.11	4.93	283.30	273.18	109.60	27.992
1,911.00	1,902.35	107.40	-49.38	4.70	1,883.16	1,853.97	151.93	229.42	4.94	285.96	275.83	108.97	28.222
2,000.00	1,988.11	127.83	-61.59	4.77	1,967.13	1,935.77	167.19	240.69	5.01	308.79	298.54	110.04	30.120
2,002.00	1,990.02	128.33	-61.89	4.77	1,969.04	1,937.62	167.56	240.94	5.01	309.33	299.07	110.06	30.164
2,094.00	2,078.12	150.97	-75.65	4.86	2,058.70	2,024.65	185.63	252.69	5.11	334.00	323.58	112.40	32.061
2,100.00	2,083.87	152.42	-76.55	4.87	2,064.62	2,030.40	186.84	253.44	5.12	335.60	325.17	112.57	32.179
2,185.00	2,165.55	172.32	-89.10	4.96	2,150.39	2,113.70	204.36	263.93	5.22	357.83	347.23	114.75	33.747
2,200.00	2,180.01	175.69	-91.28	4.98	2,165.73	2,128.62	207.47	265.70	5.24	361.64	351.00	115.23	34.000
2,277.00	2,254.41	192.13	-102.30	5.08	2,240.52	2,201.46	222.20	274.12	5.34	380.92	370.11	117.65	35.246
2,300.00	2,276.71	196.79	-105.54	5.11	2,262.50	2,222.90	226.32	276.65	5.37	386.68	375.82	118.07	35.603
2,368.00	2,342.75	210.01	-114.87	5.20	2,320.56	2,279.51	237.08	283.81	5.45	404.12	393.10	119.24	36.679
2,400.00	2,373.80	216.29	-119.37	5.25	2,346.95	2,305.15	242.10	287.48	5.49	412.93	401.84	119.15	37.245
2,459.00	2,430.64	229.13	-128.60	5.34	2,404.23	2,360.71	253.15	295.93	5.58	430.44	419.21	119.13	38.340
2,500.00	2,469.97	238.48	-135.45	5.41	2,448.30	2,403.57	261.53	301.95	5.65	442.57	431.23	120.61	39.005

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-3412B - Plan B - Actual Field Surveys

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
2,551.00	2,518.97	249.71	-144.02	5.49	2,492.75	2,446.80	269.96	307.88	5.72	457.62	446.13	122.34	39.844
2,600.00	2,566.13	260.20	-152.23	5.58	2,532.98	2,485.81	277.80	313.78	5.79	472.71	461.09	122.71	40.670
2,642.00	2,606.60	269.03	-159.16	5.66	2,571.84	2,523.40	285.54	319.86	5.86	485.96	474.21	123.01	41.358
2,700.00	2,662.37	281.98	-168.45	5.77	2,631.32	2,580.99	297.45	328.83	5.97	503.65	491.70	118.25	42.152
2,733.00	2,693.94	290.09	-173.55	5.84	2,664.82	2,613.45	304.17	333.66	6.03	513.29	501.23	115.92	42.554
2,800.00	2,758.00	306.84	-183.78	5.98	2,732.72	2,679.33	317.61	343.10	6.16	532.40	520.11	117.47	43.303
2,825.00	2,781.94	312.96	-187.61	6.03	2,758.33	2,704.21	322.62	346.53	6.21	539.43	527.05	118.04	43.559
2,900.00	2,854.15	330.61	-197.49	6.19	2,835.13	2,778.91	337.56	356.36	6.36	558.58	545.90	112.66	44.022
2,917.00	2,870.61	334.46	-199.29	6.22	2,851.83	2,795.16	340.76	358.43	6.40	562.44	549.69	111.17	44.091
3,000.00	2,951.33	352.00	-207.39	6.39	2,935.65	2,876.85	356.41	368.78	6.56	580.60	567.54	113.04	44.455
3,008.00	2,959.14	353.58	-208.14	6.41	2,944.41	2,885.40	358.02	369.82	6.58	582.29	569.19	113.22	44.480
3,100.00	3,049.28	369.97	-216.48	6.59	3,039.31	2,978.10	375.36	380.35	6.77	600.73	587.30	116.61	44.733
3,192.00	3,139.53	386.26	-223.69	6.76	3,121.42	3,058.33	390.10	389.77	6.93	618.44	604.69	107.51	44.970
3,200.00	3,147.36	387.81	-224.25	6.78	3,127.98	3,064.74	391.25	390.59	6.95	619.98	606.20	107.56	44.992
3,283.00	3,228.60	403.78	-230.04	6.94	3,195.94	3,131.03	402.96	399.85	7.09	636.94	622.88	108.12	45.289
3,300.00	3,245.24	407.04	-231.22	6.98	3,210.22	3,144.94	405.42	401.96	7.12	640.62	626.50	108.04	45.354
3,375.00	3,318.68	421.38	-236.36	7.13	3,272.99	3,205.88	416.77	411.86	7.26	657.47	643.08	107.60	45.674
3,400.00	3,343.16	426.15	-238.07	7.18	3,296.63	3,228.76	421.23	415.80	7.31	663.31	648.82	108.08	45.776
3,467.00	3,408.76	438.91	-242.86	7.32	3,364.71	3,294.70	433.94	426.98	7.47	679.00	664.25	109.39	46.011
3,500.00	3,441.06	445.20	-245.33	7.39	3,396.83	3,325.83	439.90	432.18	7.54	686.76	671.87	109.85	46.130
3,558.00	3,497.80	456.33	-249.84	7.52	3,452.55	3,379.81	450.35	441.22	7.67	700.59	685.48	110.64	46.350
3,600.00	3,538.88	464.38	-253.24	7.61	3,493.46	3,419.41	458.12	447.88	7.77	710.76	695.47	111.51	46.501
3,649.00	3,586.82	473.66	-257.33	7.72	3,541.43	3,465.87	467.25	455.67	7.89	722.72	707.23	112.53	46.675
3,700.00	3,636.73	483.21	-261.68	7.83	3,589.17	3,512.08	476.35	463.43	8.00	735.28	719.58	112.93	46.856
3,741.00	3,676.87	490.81	-265.20	7.92	3,626.82	3,548.51	483.57	469.66	8.10	745.51	729.65	113.25	47.009
3,800.00	3,734.66	501.48	-270.45	8.06	3,688.91	3,608.57	495.46	479.93	8.25	760.43	744.32	115.66	47.196
3,832.00	3,766.02	507.10	-273.43	8.13	3,725.26	3,643.81	502.31	485.64	8.34	768.39	752.13	117.00	47.271
3,900.00	3,832.67	518.90	-279.93	8.28	3,803.54	3,719.95	516.48	497.06	8.53	784.70	768.14	117.13	47.381
3,924.00	3,856.19	523.08	-282.23	8.34	3,830.00	3,745.77	520.98	500.65	8.59	790.22	773.55	117.21	47.412
4,000.00	3,930.33	538.42	-288.78	8.52	3,900.01	3,814.05	533.17	510.18	8.76	806.97	789.97	106.30	47.471
4,015.00	3,944.87	541.94	-289.89	8.55	3,913.62	3,827.30	535.64	512.08	8.79	810.14	793.07	104.61	47.476
4,100.00	4,026.80	563.67	-296.14	8.77	4,005.12	3,916.47	551.92	524.54	9.01	827.75	810.28	103.64	47.380
4,106.00	4,032.55	565.30	-296.59	8.78	4,011.70	3,922.90	553.04	525.40	9.03	828.97	811.47	103.59	47.371
4,197.00	4,120.02	589.46	-303.49	9.03	4,102.76	4,011.62	569.93	537.04	9.26	847.34	829.40	105.33	47.225
4,200.00	4,122.91	590.23	-303.72	9.04	4,105.98	4,014.74	570.58	537.44	9.26	847.94	829.98	105.33	47.218
4,289.00	4,208.82	612.55	-310.21	9.28	4,203.60	4,109.77	589.62	549.06	9.51	864.93	846.51	105.38	46.955
4,300.00	4,219.46	615.22	-310.98	9.30	4,213.04	4,118.99	591.39	550.14	9.53	866.96	848.49	105.67	46.939
4,380.00	4,297.13	633.52	-316.60	9.51	4,287.00	4,191.12	605.01	559.14	9.71	882.24	863.39	107.91	46.822
4,400.00	4,316.63	637.77	-317.98	9.56	4,300.97	4,204.74	607.54	560.92	9.75	886.14	867.21	108.14	46.825
4,473.00	4,388.08	651.93	-322.68	9.74	4,375.81	4,277.71	621.31	570.30	9.93	899.93	880.66	109.02	46.684
4,500.00	4,414.61	656.70	-324.27	9.80	4,405.90	4,307.03	626.98	573.97	10.01	904.79	885.38	108.63	46.613
4,563.00	4,476.63	667.24	-327.62	9.95	4,477.78	4,377.02	641.13	582.22	10.19	915.33	895.60	107.50	46.401
4,600.00	4,513.16	672.88	-329.35	10.03	4,523.71	4,421.80	650.10	586.99	10.31	920.88	900.96	107.49	46.239
4,655.00	4,567.64	680.10	-331.57	10.14	4,596.26	4,492.82	663.46	593.52	10.49	928.02	907.82	107.37	45.932
4,700.00	4,612.32	685.20	-333.13	10.23	4,658.14	4,553.59	674.31	597.83	10.63	932.68	912.25	107.22	45.644
4,747.00	4,659.05	690.02	-334.61	10.33	4,708.24	4,602.92	682.51	600.78	10.75	936.93	916.29	107.13	45.402
4,800.00	4,711.86	694.17	-336.13	10.42	4,764.46	4,658.43	690.86	603.89	10.87	941.38	920.53	115.02	45.147
4,839.00	4,750.80	695.95	-337.19	10.49	4,805.25	4,698.78	696.45	606.03	10.96	944.49	923.49	129.41	44.966
4,900.00	4,811.78	696.85	-338.14	10.57	4,871.77	4,764.68	704.82	609.29	11.10	948.49	927.26	-154.13	44.675
4,931.00	4,842.78	696.50	-338.13	10.62	4,907.45	4,800.09	708.96	610.81	11.17	949.85	928.51	-74.20	44.498
5,000.00	4,911.75	694.54	-337.59	10.70	4,986.88	4,879.04	717.26	613.54	11.32	951.87	930.28	-76.48	44.105

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-3412B - Plan B - Actual Field Surveys

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft . Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	+E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	+E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
5,023.00	4,934.73	693.63	-337.35	10.73	5,013.38	4,905.42	719.73	614.26	11.37	952.33	930.67	-76.95	43.968
5,100.00	5,011.59	689.06	-336.40	10.81	5,111.54	5,003.23	727.80	615.69	11.55	952.90	930.98	-82.29	43.473
5,115.00	5,026.54	687.87	-336.20	10.83	5,127.00	5,018.65	728.96	615.70	11.58	952.80	930.84	-82.89	43.381
5,122.02	5,033.53	687.20	-336.12	10.84	5,136.25	5,027.87	729.63	615.69	11.59	952.77	930.78	-88.53	43.339
5,146.00	5,057.22	683.54	-336.20	10.86	5,157.81	5,049.38	731.07	615.71	11.63	953.11	931.07	-96.73	43.253
5,176.00	5,086.39	676.58	-336.48	10.87	5,184.33	5,075.86	732.61	615.80	11.67	953.96	931.87	-94.17	43.191
5,200.00	5,109.28	669.39	-336.66	10.87	5,205.18	5,096.68	733.66	615.92	11.71	954.80	932.68	-95.03	43.171
5,206.00	5,114.93	667.36	-336.72	10.87	5,210.32	5,101.81	733.89	615.96	11.72	955.05	932.93	-95.22	43.168
5,238.00	5,144.15	654.39	-337.45	10.86	5,254.16	5,145.64	735.00	616.12	11.78	956.98	934.82	-98.21	43.188
5,268.00	5,170.13	639.46	-338.68	10.85	5,290.66	5,182.12	734.06	615.80	11.83	959.27	937.11	-99.56	43.291
5,299.00	5,195.92	622.32	-340.13	10.82	5,314.18	5,205.61	733.07	615.56	11.86	962.18	940.03	-99.71	43.458
5,300.00	5,196.73	621.75	-340.18	10.82	5,314.92	5,206.36	733.04	615.56	11.86	962.28	940.14	-99.70	43.464
5,329.00	5,220.11	604.64	-341.48	10.79	5,340.17	5,231.58	731.88	615.35	11.89	965.36	943.24	-99.78	43.641
5,359.00	5,243.93	586.43	-342.58	10.75	5,380.01	5,271.33	729.31	614.84	11.93	968.49	946.40	-100.16	43.831
5,389.00	5,267.55	567.96	-343.56	10.72	5,411.21	5,302.35	726.07	614.25	11.96	971.51	949.45	-101.29	44.034
5,400.00	5,276.11	561.07	-344.00	10.71	5,434.54	5,325.46	722.85	613.70	11.97	972.68	950.63	-102.50	44.122
5,420.00	5,291.47	548.31	-345.03	10.69	5,487.21	5,377.31	713.92	611.44	12.00	974.76	952.76	-104.92	44.307
5,451.00	5,314.73	527.89	-346.79	10.66	5,538.00	5,426.71	702.75	607.85	12.02	977.31	955.37	-105.70	44.537
5,482.00	5,337.45	506.86	-348.40	10.62	5,560.85	5,448.68	696.68	606.26	12.02	980.03	958.13	-105.82	44.754
5,500.00	5,350.53	494.53	-349.31	10.60	5,683.41	5,561.41	650.61	595.27	11.97	980.99	959.22	-108.52	45.070
5,513.00	5,359.98	485.63	-349.99	10.59	6,028.00	5,740.55	381.67	544.73	11.37	979.02	957.57	-104.85	45.646
5,543.00	5,381.68	464.95	-351.26	10.56	6,028.00	5,740.55	381.67	544.73	11.37	969.90	948.47	-103.79	45.260
5,573.00	5,402.95	443.81	-352.09	10.52	6,028.00	5,740.55	381.67	544.73	11.37	961.34	939.95	-103.84	44.947
5,600.00	5,421.44	424.15	-352.46	10.49	6,028.00	5,740.55	381.67	544.73	11.37	954.21	932.85	-103.35	44.674
5,605.00	5,424.79	420.43	-352.47	10.49	6,028.00	5,740.55	381.67	544.73	11.37	952.94	931.59	-103.27	44.626
5,637.00	5,445.64	396.16	-352.23	10.45	6,060.96	5,741.25	348.86	541.63	12.45	943.61	922.18	-101.97	44.024
5,669.00	5,465.87	371.38	-351.62	10.42	6,069.71	5,741.38	340.13	541.21	12.83	935.78	914.34	-101.44	43.641
5,700.00	5,484.83	346.86	-351.02	10.39	6,078.33	5,741.48	331.51	540.95	13.21	929.12	907.70	-101.98	43.373
5,732.00	5,503.39	320.80	-350.50	10.36	6,113.00	5,741.67	296.86	541.56	14.80	924.42	902.92	-101.13	42.992
5,764.00	5,521.35	294.32	-349.90	10.33	6,113.00	5,741.67	296.86	541.56	14.80	919.01	897.51	-101.09	42.751
5,795.00	5,538.21	268.31	-349.46	10.31	6,113.00	5,741.67	296.86	541.56	14.80	915.07	893.62	-101.78	42.658
5,800.00	5,540.84	264.06	-349.43	10.30	6,113.00	5,741.67	296.86	541.56	14.80	914.59	893.15	-101.87	42.649
5,827.00	5,554.39	240.71	-349.35	10.29	6,113.00	5,741.67	296.86	541.56	14.80	912.73	891.33	-102.30	42.637
5,858.00	5,568.43	213.08	-349.71	10.27	6,139.44	5,741.63	270.46	543.15	14.82	911.88	890.53	-102.23	42.707
5,861.65	5,569.96	209.77	-349.79	10.27	6,141.98	5,741.62	267.93	543.31	14.82	911.88	890.53	-102.17	42.710
5,890.00	5,581.05	183.69	-350.47	10.25	6,161.90	5,741.53	248.06	544.69	14.83	912.24	890.90	-101.67	42.742
5,900.00	5,584.66	174.37	-350.72	10.25	6,169.01	5,741.48	240.97	545.22	14.84	912.52	891.17	-101.50	42.744
5,921.00	5,592.06	154.72	-351.27	10.23	6,183.95	5,741.37	226.07	546.38	14.84	913.27	891.91	-101.14	42.754
5,953.00	5,602.81	124.59	-352.04	10.21	6,208.00	5,741.13	202.11	548.42	14.86	914.78	893.38	-100.45	42.760
5,984.00	5,612.02	95.00	-352.61	10.19	6,238.42	5,740.53	171.82	551.13	14.88	916.48	895.03	-99.50	42.716
6,000.00	5,616.27	79.58	-352.87	10.18	6,255.04	5,739.99	155.27	552.60	14.88	917.42	895.94	-99.21	42.698
6,016.00	5,620.39	64.12	-353.19	10.17	6,271.61	5,739.30	138.79	554.07	14.89	918.45	896.93	-98.92	42.683
6,047.00	5,627.67	33.99	-353.66	10.20	6,303.57	5,737.55	107.00	556.87	14.91	920.40	898.80	-97.98	42.612
6,079.00	5,633.60	2.55	-353.73	10.28	6,334.75	5,735.70	75.99	559.58	14.93	922.27	900.57	-97.15	42.494
6,100.00	5,636.74	-18.21	-353.61	10.33	6,355.45	5,734.57	55.40	561.37	14.94	923.45	901.68	-96.81	42.410
6,112.00	5,638.42	-30.09	-353.51	10.37	6,367.32	5,733.96	43.58	562.38	14.95	924.11	902.30	-96.62	42.363
6,200.00	5,647.45	-117.61	-352.98	13.37	6,447.65	5,730.55	-36.37	569.35	15.00	929.89	907.81	-95.65	42.100
6,221.00	5,648.72	-138.57	-352.96	14.15	6,466.02	5,729.93	-54.65	571.04	15.01	931.61	909.46	-95.47	42.046
6,300.00	5,653.50	-217.42	-352.57	14.20	6,541.50	5,727.68	-129.75	578.28	15.06	938.15	915.72	-95.06	41.814
6,315.00	5,654.56	-232.38	-352.42	14.21	6,556.50	5,727.20	-144.67	579.72	15.07	939.31	916.81	-94.96	41.757
6,400.00	5,659.08	-317.25	-351.76	14.27	6,624.45	5,725.17	-212.24	586.57	15.12	946.72	923.85	-94.42	41.400
6,410.00	5,659.40	-327.25	-351.72	14.27	6,631.37	5,725.05	-219.12	587.36	15.13	947.78	924.87	-94.37	41.370

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-3412B - Plan B - Actual Field Surveys

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	+E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	+E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
6,500.00	5,660.22	-417.24	-352.30	14.34	6,706.79	5,724.79	-293.91	597.04	15.18	959.69	936.26	-93.98	40.961
6,504.00	5,660.17	-421.24	-352.36	14.34	6,712.26	5,724.78	-299.34	597.74	15.19	960.27	936.81	-93.97	40.928
6,599.00	5,659.29	-516.22	-353.62	14.41	6,825.37	5,723.74	-411.69	610.69	15.28	972.31	948.08	-93.97	40.128
6,600.00	5,659.29	-517.22	-353.63	14.41	6,826.39	5,723.74	-412.71	610.80	15.28	972.43	948.19	-93.97	40.120
6,693.00	5,659.15	-610.17	-356.52	14.48	6,961.40	5,723.95	-547.12	623.26	15.41	984.14	958.94	-93.99	39.053
6,700.00	5,659.17	-617.16	-356.89	14.49	6,976.18	5,723.98	-561.88	624.15	15.42	984.93	959.63	-93.99	38.925
6,788.00	5,659.67	-704.93	-363.18	14.56	7,107.16	5,723.41	-692.80	627.49	15.57	992.99	966.62	-93.92	37.664
6,800.00	5,659.76	-716.89	-364.20	14.58	7,118.65	5,723.33	-704.29	627.64	15.58	994.15	967.67	-93.89	37.544
6,883.00	5,659.59	-799.71	-369.49	14.66	7,193.15	5,722.87	-778.78	628.83	15.68	1,000.74	973.46	-93.77	36.687
6,900.00	5,659.40	-816.70	-370.16	14.68	7,207.59	5,722.75	-793.21	629.16	15.71	1,001.79	974.35	-93.77	36.498
6,977.00	5,658.30	-893.68	-371.02	14.77	7,287.54	5,721.98	-873.13	631.31	15.86	1,004.75	976.43	-93.80	35.475
7,000.00	5,657.93	-916.67	-370.73	14.80	7,318.42	5,721.68	-904.00	631.84	15.94	1,004.87	976.24	-93.81	35.090
7,072.00	5,656.94	-988.66	-369.82	14.90	7,393.46	5,720.99	-979.04	632.52	16.16	1,004.63	975.13	-93.83	34.053
7,078.17	5,656.87	-994.83	-369.75	14.91	7,399.26	5,720.94	-984.84	632.59	16.18	1,004.62	975.05	-93.83	33.969
7,100.00	5,656.59	-1,016.66	-369.60	14.94	7,419.78	5,720.74	-1,005.35	632.82	16.26	1,004.72	974.89	-93.83	33.682
7,166.00	5,655.60	-1,082.65	-370.14	15.07	7,485.47	5,720.04	-1,071.04	633.65	16.55	1,006.12	975.48	-93.81	32.837
7,200.00	5,655.12	-1,116.64	-370.53	15.15	7,520.10	5,719.57	-1,105.66	634.07	16.72	1,006.93	975.84	-93.83	32.390
7,261.00	5,654.73	-1,177.63	-369.85	15.33	7,577.23	5,718.89	-1,162.78	634.82	17.03	1,007.02	975.15	-93.83	31.597
7,274.54	5,654.70	-1,191.17	-369.57	15.37	7,589.61	5,718.81	-1,175.16	635.01	17.11	1,006.95	974.91	-93.82	31.427
7,300.00	5,654.63	-1,216.63	-369.39	15.47	7,612.91	5,718.74	-1,198.45	635.41	17.25	1,007.21	974.85	-93.82	31.126
7,355.00	5,654.34	-1,271.61	-370.61	15.70	7,682.04	5,718.95	-1,267.58	636.32	17.68	1,009.20	976.02	-93.83	30.419
7,400.00	5,654.03	-1,316.56	-372.60	15.92	7,820.29	5,719.43	-1,405.68	631.41	18.57	1,010.27	975.83	-93.90	29.338
7,450.00	5,653.67	-1,366.50	-375.06	16.19	7,872.95	5,719.17	-1,458.13	626.70	18.92	1,008.26	973.13	-93.92	28.695
7,500.00	5,653.42	-1,416.47	-376.66	16.49	7,912.00	5,719.04	-1,497.01	623.11	19.19	1,005.35	969.57	-93.93	28.097
7,545.00	5,653.41	-1,461.47	-376.41	16.76	7,954.21	5,718.93	-1,539.07	619.51	19.48	1,001.30	964.89	-93.93	27.503
7,600.00	5,653.58	-1,516.46	-375.76	17.12	8,007.00	5,718.80	-1,591.74	615.93	19.84	996.88	959.71	-93.92	26.820
7,639.00	5,653.80	-1,555.46	-376.06	17.37	8,022.98	5,718.77	-1,607.69	615.05	19.96	994.81	957.25	-93.91	26.488
7,683.91	5,654.07	-1,600.35	-377.34	17.68	8,055.98	5,718.78	-1,640.65	613.51	20.20	993.97	955.86	-93.91	26.079
7,700.00	5,654.16	-1,616.43	-378.07	17.79	8,067.81	5,718.80	-1,652.47	613.05	20.29	994.08	955.77	-93.91	25.948
7,734.00	5,654.33	-1,650.36	-380.10	18.03	8,102.00	5,718.92	-1,686.65	612.01	20.54	995.07	956.28	-93.91	25.651
7,800.00	5,654.58	-1,716.12	-385.69	18.51	8,136.23	5,719.06	-1,720.88	611.51	20.80	999.49	959.99	-93.91	25.302
7,828.00	5,654.67	-1,743.96	-388.68	18.71	8,154.09	5,719.12	-1,738.73	611.51	20.93	1,002.48	962.65	-93.90	25.173
7,900.00	5,655.24	-1,815.84	-391.45	19.23	8,197.00	5,719.22	-1,781.64	612.24	21.26	1,006.51	965.70	-93.81	24.661
7,923.00	5,655.59	-1,838.79	-390.06	19.40	8,220.76	5,719.18	-1,805.39	612.99	21.45	1,005.82	964.68	-93.75	24.451
8,000.00	5,656.61	-1,915.59	-384.67	19.98	8,292.00	5,718.18	-1,876.56	615.86	22.00	1,003.37	961.05	-93.68	23.709
8,018.00	5,656.78	-1,933.57	-383.73	20.11	8,303.07	5,717.90	-1,887.61	616.38	22.09	1,003.22	960.66	-93.66	23.577
8,031.54	5,656.88	-1,947.10	-383.08	20.22	8,316.06	5,717.50	-1,900.58	617.01	22.20	1,003.19	960.42	-93.64	23.457
8,100.00	5,657.14	-2,015.50	-380.45	20.76	8,381.65	5,714.34	-1,966.01	620.34	22.71	1,003.82	959.97	-93.44	22.890
8,113.00	5,657.14	-2,028.49	-380.07	20.86	8,395.15	5,713.49	-1,979.47	621.05	22.82	1,004.08	960.01	-93.39	22.784
8,200.00	5,654.81	-2,115.43	-378.10	21.56	8,487.92	5,708.68	-2,071.99	625.58	23.56	1,006.23	960.71	-93.16	22.103
8,205.00	5,654.54	-2,120.42	-378.01	21.60	8,493.10	5,708.49	-2,077.16	625.82	23.60	1,006.37	960.77	-93.16	22.067
8,244.17	5,653.36	-2,159.56	-377.00	21.82	8,533.69	5,707.47	-2,117.70	627.59	23.93	1,007.08	960.95	-93.25	21.830
8,300.00	5,653.11	-2,215.35	-375.05	21.97	8,586.04	5,707.40	-2,170.01	629.78	24.35	1,007.48	960.77	-93.26	21.568
8,389.17	5,652.72	-2,304.47	-371.94	22.24	8,659.00	5,709.19	-2,242.84	633.61	24.96	1,009.19	961.61	-93.37	21.212
8,400.00	5,652.68	-2,315.29	-371.58	22.27	8,676.70	5,709.83	-2,260.50	634.61	25.10	1,009.47	961.71	-93.41	21.138
8,439.76	5,652.67	-2,355.04	-370.59	22.40	8,752.80	5,711.77	-2,336.53	637.24	25.72	1,009.91	961.41	-93.53	20.820
8,500.00	5,652.79	-2,415.27	-369.47	22.60	8,834.54	5,713.07	-2,418.25	637.79	26.38	1,009.26	959.89	-93.59	20.443
8,600.00	5,652.99	-2,515.25	-367.63	22.97	8,960.69	5,715.60	-2,544.34	634.85	27.40	1,005.05	954.28	-93.74	19.799
8,700.00	5,653.20	-2,615.23	-365.79	23.38	9,038.87	5,719.08	-2,622.42	633.17	28.05	1,001.35	949.55	-93.94	19.328
8,800.00	5,653.40	-2,715.22	-363.94	23.82	9,118.00	5,723.36	-2,701.43	633.38	28.71	1,000.08	947.18	-94.18	18.904
8,809.03	5,653.42	-2,724.25	-363.77	23.86	9,118.00	5,723.36	-2,701.43	633.38	28.71	1,000.08	947.13	-94.18	18.889
8,900.00	5,653.60	-2,815.20	-362.10	24.29	9,198.53	5,728.14	-2,781.79	635.18	29.40	1,000.84	946.79	-94.45	18.518

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-3412B - Plan B - Actual Field Surveys

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
9,000.00	5,653.81	-2,915.18	-360.25	24.79	9,296.74	5,733.70	-2,879.80	638.19	30.23	1,002.50	947.14	-94.75	18.107
9,100.00	5,654.01	-3,015.16	-358.41	25.32	9,414.08	5,736.92	-2,997.05	641.10	31.21	1,003.36	946.49	-94.91	17.644
9,200.00	5,654.22	-3,115.15	-356.56	25.88	9,535.71	5,737.15	-3,118.67	642.06	32.24	1,002.32	943.87	-94.92	17.148
9,300.00	5,654.42	-3,215.13	-354.72	26.46	9,639.59	5,733.33	-3,222.47	641.46	33.13	999.57	939.63	-94.70	16.677
9,400.00	5,654.62	-3,315.11	-352.87	27.06	9,723.16	5,730.28	-3,305.98	641.63	33.85	997.65	936.37	-94.52	16.280
9,460.04	5,654.75	-3,375.14	-351.76	27.44	9,773.70	5,728.79	-3,356.50	642.52	34.29	997.44	935.34	-94.43	16.061
9,500.00	5,654.83	-3,415.10	-351.03	27.69	9,814.02	5,728.13	-3,396.80	643.32	34.64	997.44	934.74	-94.39	15.907
9,584.92	5,655.00	-3,500.00	-349.46	28.23	9,960.83	5,727.08	-3,543.55	641.63	35.90	994.88	930.37	-94.33	15.422
9,600.00	5,655.06	-3,515.08	-349.21	28.32	9,971.37	5,727.03	-3,554.08	641.19	35.99	994.00	929.31	-94.32	15.364
9,653.95	5,655.66	-3,569.03	-348.84	28.63	10,009.14	5,727.53	-3,591.82	639.98	36.31	991.91	926.59	-94.31	15.185
9,700.00	5,656.44	-3,615.07	-348.86	28.91	10,043.09	5,728.82	-3,625.75	639.33	36.61	991.12	925.22	-94.35	15.040
9,766.47	5,657.57	-3,681.53	-348.89	29.36	10,098.08	5,731.95	-3,680.64	638.82	37.09	990.73	923.91	-94.48	14.826
9,800.00	5,658.14	-3,715.05	-348.90	29.59	10,124.00	5,733.81	-3,706.49	638.77	37.32	990.83	923.56	-94.56	14.729
9,900.00	5,659.84	-3,815.04	-348.95	30.28	10,215.00	5,739.07	-3,797.33	639.73	38.10	992.24	923.51	-94.77	14.436
10,000.00	5,661.54	-3,915.02	-348.99	30.99	10,313.69	5,739.76	-3,895.98	641.82	38.94	994.31	924.03	-94.70	14.147
10,100.00	5,663.24	-4,015.01	-349.03	31.72	10,424.59	5,737.66	-4,006.85	643.50	39.89	995.58	923.60	-94.47	13.832
10,200.00	5,664.95	-4,114.99	-349.08	32.46	10,530.09	5,735.89	-4,112.33	644.07	40.80	995.90	922.26	-94.26	13.525
10,300.00	5,666.65	-4,214.98	-349.12	33.21	10,616.87	5,735.78	-4,199.11	644.58	41.56	996.44	921.29	-94.17	13.259
10,400.00	5,668.35	-4,314.97	-349.16	33.97	10,702.42	5,736.94	-4,284.62	646.89	42.32	999.09	922.41	-94.14	13.030
10,500.00	5,670.05	-4,414.95	-349.21	34.74	10,807.39	5,737.68	-4,389.55	649.49	43.24	1,001.51	923.14	-94.07	12.778
10,600.00	5,671.75	-4,514.94	-349.25	35.53	10,915.64	5,736.70	-4,497.76	652.24	44.18	1,003.94	923.83	-93.90	12.532
10,700.00	5,673.45	-4,614.92	-349.29	36.32	11,016.32	5,736.76	-4,598.42	653.66	45.06	1,005.28	923.49	-93.80	12.291
10,800.00	5,675.15	-4,714.91	-349.34	37.12	11,153.38	5,737.69	-4,735.45	652.85	46.27	1,004.54	920.74	-93.72	11.987
10,900.00	5,676.85	-4,814.89	-349.38	37.93	11,238.54	5,738.11	-4,820.60	651.87	47.02	1,003.32	917.95	-93.67	11.752
11,000.00	5,678.55	-4,914.88	-349.42	38.75	11,346.40	5,736.40	-4,928.45	651.20	47.96	1,002.57	915.42	-93.47	11.504
11,085.13	5,680.00	-5,000.00	-349.46	39.46	11,454.41	5,734.52	-5,036.40	648.63	48.89	1,000.41	911.61	-93.26	11.266
11,100.00	5,680.21	-5,014.86	-349.47	39.58	11,473.37	5,734.06	-5,055.35	647.93	49.06	999.83	910.74	-93.23	11.223
11,120.18	5,680.38	-5,035.04	-349.47	39.75	11,492.00	5,733.54	-5,073.95	647.16	49.22	998.97	909.55	-93.21	11.172
11,200.00	5,680.76	-5,114.86	-349.47	40.41	11,564.69	5,730.89	-5,146.55	644.53	49.85	995.92	905.20	-93.05	10.977
11,300.00	5,681.24	-5,214.86	-349.47	41.25	11,661.37	5,727.19	-5,243.12	641.94	50.68	993.01	900.60	-92.82	10.745
11,400.00	5,681.72	-5,314.86	-349.47	42.10	11,745.28	5,725.11	-5,326.99	640.22	51.41	990.84	896.85	-92.68	10.541
11,458.35	5,682.00	-5,373.21	-349.46	42.59	11,791.30	5,723.73	-5,372.98	639.98	51.81	990.46	895.56	-92.59	10.437
11,500.00	5,682.20	-5,414.86	-349.46	42.95	11,823.24	5,722.38	-5,404.89	640.21	52.09	990.66	895.13	-92.50	10.369
11,600.00	5,682.68	-5,514.86	-349.46	43.81	11,933.98	5,717.59	-5,515.50	641.71	53.05	991.90	894.52	-92.19	10.186
11,700.00	5,683.16	-5,614.86	-349.46	44.67	12,036.39	5,716.94	-5,617.92	641.34	53.95	991.49	892.35	-92.13	10.001
11,800.00	5,683.64	-5,714.86	-349.46	45.54	12,148.40	5,718.74	-5,729.89	640.00	54.93	990.31	889.32	-92.20	9.806
11,900.00	5,684.11	-5,814.85	-349.46	46.41	12,235.33	5,720.91	-5,816.78	639.35	55.69	989.61	887.00	-92.30	9.644
12,000.00	5,684.59	-5,914.85	-349.46	47.29	12,339.36	5,721.25	-5,920.81	638.33	56.60	988.60	884.20	-92.30	9.469
12,018.07	5,684.68	-5,932.92	-349.46	47.44	12,352.04	5,721.30	-5,933.49	638.28	56.72	988.54	883.86	-92.30	9.444
12,085.15	5,685.00	-6,000.00	-349.46	48.03	12,407.00	5,722.23	-5,988.43	638.86	57.21	989.21	883.45	-92.33	9.354
12,100.00	5,685.03	-6,014.85	-349.46	48.17	12,411.31	5,722.34	-5,992.74	638.96	57.25	989.49	883.56	-92.33	9.341
12,198.86	5,683.29	-6,113.69	-349.46	49.04	12,523.44	5,724.91	-6,104.83	640.37	58.25	990.88	883.10	-92.56	9.193
12,200.00	5,683.25	-6,114.83	-349.46	49.05	12,524.54	5,724.93	-6,105.93	640.38	58.26	990.89	883.09	-92.56	9.192
12,300.00	5,679.76	-6,214.77	-349.46	49.94	12,623.20	5,726.05	-6,204.58	641.37	59.13	992.11	882.57	-92.83	9.057
12,400.00	5,676.27	-6,314.71	-349.46	50.83	12,773.00	5,726.00	-6,354.35	640.31	60.45	991.97	880.24	-93.13	8.879
12,500.00	5,672.78	-6,414.65	-349.46	51.72	12,844.49	5,726.40	-6,425.81	638.35	61.09	989.49	876.26	-93.30	8.738
12,600.00	5,669.29	-6,514.59	-349.46	52.62	12,950.63	5,728.42	-6,531.92	637.25	62.04	988.81	873.77	-93.64	8.595
12,700.00	5,665.80	-6,614.53	-349.46	53.52	13,048.00	5,728.47	-6,629.27	635.28	62.91	987.03	870.25	-93.84	8.451
12,800.00	5,662.31	-6,714.47	-349.46	54.42	13,139.00	5,727.66	-6,720.26	634.35	63.72	986.20	867.72	-93.98	8.324
12,805.80	5,662.11	-6,720.27	-349.46	54.47	13,139.00	5,727.66	-6,720.26	634.35	63.72	986.19	867.66	-93.98	8.320
12,900.00	5,658.82	-6,814.41	-349.46	55.33	13,222.80	5,727.51	-6,804.06	634.82	64.47	986.94	866.82	-94.14	8.217



Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)
Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-3412B - Plan B - Actual Field Surveys
Scan Range: 0.00 to 13,117.21 usft. Measured Depth.
Scan Radius is 20,000.00 usft . Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre		Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre		Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
		+N/-S (usft)	+E/-W (usft)				+N/-S (usft)	+E/-W (usft)					
13,000.00	5,655.33	-6,914.34	-349.46	56.23	13,360.09	5,728.20	-6,941.33	634.18	65.69	986.93	864.73	-94.46	8.077
13,100.00	5,651.84	-7,014.28	-349.46	57.14	13,487.22	5,727.95	-7,068.31	628.10	66.80	982.25	858.07	-94.73	7.910
13,117.21	5,651.24	-7,031.48	-349.46	57.30	13,500.00	5,727.91	-7,081.08	627.40	66.92	981.36	856.92	-94.76	7.886

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-3410B - Plan D - ST-1_Actual Field Surveys

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
100.00	100.00	0.04	-0.03	3.29	97.38	97.38	-74.94	32.61	3.29	81.79	74.24	-166.37	10.838
177.00	177.00	0.14	-0.10	3.29	174.68	174.68	-74.71	31.88	3.29	81.40	73.84	-165.98	10.777
200.00	200.00	0.19	-0.13	3.30	197.66	197.66	-74.63	31.59	3.30	81.27	73.71	171.87	10.752
244.28	244.28	0.44	-0.16	3.31	241.88	241.86	-74.52	30.97	3.31	81.17	73.60	161.70	10.716
268.00	268.00	0.65	-0.17	3.31	265.56	265.55	-74.49	30.61	3.31	81.20	73.61	159.82	10.705
300.00	300.00	0.97	-0.19	3.32	297.53	297.52	-74.46	30.13	3.32	81.29	73.69	162.42	10.693
359.00	358.99	1.58	-0.26	3.34	356.49	356.46	-74.36	29.40	3.34	81.53	73.89	166.70	10.672
400.00	399.99	2.02	-0.35	3.36	397.52	397.50	-74.27	28.96	3.35	81.73	74.05	174.32	10.654
451.00	450.99	2.56	-0.54	3.38	448.57	448.54	-74.15	28.35	3.37	81.97	74.25	-176.76	10.623
500.00	499.98	3.08	-0.76	3.41	497.82	497.78	-73.96	27.69	3.40	82.14	74.37	-178.42	10.576
544.00	543.98	3.57	-0.95	3.43	542.05	542.01	-73.69	27.00	3.42	82.17	74.35	-179.79	10.512
600.00	599.98	4.08	-1.19	3.46	597.80	597.75	-73.37	26.06	3.46	82.11	74.23	-166.52	10.414
635.00	634.98	4.28	-1.35	3.49	632.63	632.58	-73.27	25.45	3.48	82.06	74.13	-150.86	10.346
679.27	679.24	4.43	-1.53	3.52	676.61	676.55	-73.27	24.72	3.51	82.02	74.02	-145.37	10.264
700.00	699.98	4.48	-1.60	3.53	697.20	697.14	-73.31	24.42	3.53	82.02	74.00	-141.09	10.228
727.00	726.98	4.52	-1.68	3.55	724.02	723.95	-73.40	24.06	3.55	82.06	74.00	-131.70	10.183
800.00	799.98	4.49	-1.93	3.61	797.12	797.05	-73.68	23.16	3.60	82.09	73.92	-83.88	10.042
819.00	818.98	4.44	-2.02	3.62	816.16	816.09	-73.73	22.94	3.62	82.06	73.85	-78.80	9.999
872.67	872.65	4.32	-2.24	3.67	869.67	869.59	-73.89	22.35	3.67	81.99	73.69	-78.78	9.876
900.00	899.98	4.28	-2.30	3.70	896.91	896.83	-74.00	22.11	3.69	82.01	73.65	-78.95	9.819
911.00	910.97	4.27	-2.32	3.71	907.87	907.79	-74.05	22.02	3.70	82.02	73.65	-79.13	9.797
993.00	992.97	4.89	-2.69	3.79	989.94	989.86	-74.40	21.40	3.78	82.87	74.34	-171.65	9.709
1,000.00	999.97	5.00	-2.74	3.80	996.94	996.86	-74.43	21.35	3.79	83.01	74.46	-173.89	9.708
1,087.00	1,086.93	7.57	-3.42	3.89	1,083.83	1,083.74	-74.75	20.78	3.88	85.80	77.07	174.81	9.821
1,100.00	1,099.91	8.13	-3.53	3.91	1,096.85	1,096.77	-74.80	20.70	3.90	86.40	77.63	173.13	9.857
1,176.00	1,175.78	12.54	-3.97	4.00	1,174.21	1,174.12	-74.48	19.97	3.99	90.26	81.33	167.83	10.098
1,200.00	1,199.72	14.29	-4.09	4.03	1,198.76	1,198.67	-74.13	19.61	4.02	91.56	82.56	169.86	10.178
1,268.00	1,267.49	19.86	-4.76	4.12	1,268.68	1,268.53	-72.31	17.66	4.11	94.95	85.79	174.90	10.363
1,300.00	1,299.35	22.82	-5.26	4.16	1,301.85	1,301.64	-71.00	16.23	4.15	96.39	87.15	177.54	10.429
1,360.00	1,359.01	29.01	-6.57	4.25	1,364.24	1,363.83	-67.49	12.62	4.23	98.70	89.30	-178.04	10.503
1,400.00	1,398.73	33.60	-7.76	4.31	1,406.35	1,405.71	-64.24	9.59	4.30	99.87	90.37	-174.27	10.509
1,451.00	1,449.28	40.00	-9.75	4.38	1,460.18	1,459.08	-58.77	5.28	4.37	100.73	91.09	-170.21	10.448
1,500.00	1,497.77	46.65	-12.21	4.46	1,510.97	1,509.27	-52.49	0.71	4.45	101.03	91.25	-165.56	10.331
1,542.00	1,539.25	52.69	-14.82	4.52	1,554.54	1,552.19	-46.44	-3.64	4.52	101.02	91.32	-162.08	10.413
1,600.00	1,596.52	60.92	-18.80	4.57	1,615.85	1,612.38	-36.39	-9.62	4.59	99.54	89.73	-158.70	10.146
1,636.00	1,632.11	65.72	-21.34	4.60	1,653.55	1,649.24	-29.18	-12.93	4.61	97.38	87.51	-156.79	9.869
1,700.00	1,695.37	74.10	-26.29	4.62	1,719.83	1,713.81	-15.00	-17.61	4.63	92.05	82.17	-153.95	9.317
1,728.00	1,723.02	77.79	-28.69	4.62	1,747.78	1,740.97	-8.56	-19.11	4.64	89.38	79.49	-153.32	9.040
1,800.00	1,793.94	87.89	-35.93	4.65	1,818.84	1,810.08	7.79	-21.31	4.66	83.64	73.76	-153.74	8.464
1,819.00	1,812.59	90.74	-38.13	4.65	1,837.57	1,828.31	12.10	-21.53	4.67	82.52	72.64	-154.50	8.353
1,876.30	1,868.62	100.49	-45.08	4.68	1,893.95	1,883.18	25.04	-21.51	4.69	80.96	71.12	-164.58	8.226
1,900.00	1,891.68	105.13	-48.01	4.69	1,917.21	1,905.81	30.38	-21.21	4.70	81.24	71.41	-168.49	8.267
1,911.00	1,902.35	107.40	-49.38	4.70	1,927.99	1,916.31	32.82	-21.06	4.71	81.55	71.74	-170.22	8.305
2,000.00	1,988.11	127.83	-61.59	4.77	2,015.39	2,001.59	51.99	-20.37	4.76	87.88	78.08	-177.64	8.970
2,002.00	1,990.02	128.33	-61.89	4.77	2,017.37	2,003.52	52.41	-20.37	4.76	88.09	78.29	-177.79	8.991
2,094.00	2,078.12	150.97	-75.65	4.86	2,109.05	2,093.09	71.99	-20.52	4.83	97.98	88.07	176.81	9.884
2,100.00	2,083.87	152.42	-76.55	4.87	2,115.18	2,099.06	73.33	-20.56	4.84	98.60	88.68	176.51	9.936
2,185.00	2,165.55	172.32	-89.10	4.96	2,201.64	2,183.16	93.38	-21.52	4.92	105.93	95.85	172.32	10.509
2,200.00	2,180.01	175.69	-91.28	4.98	2,216.62	2,197.69	97.04	-21.69	4.94	107.03	96.91	171.69	10.583
2,277.00	2,254.41	192.13	-102.30	5.08	2,292.67	2,271.29	116.16	-22.19	5.03	112.19	101.89	168.33	10.897
2,300.00	2,276.71	196.79	-105.54	5.11	2,314.68	2,292.61	121.62	-22.20	5.06	113.81	103.45	167.10	10.992
2,368.00	2,342.75	210.01	-114.87	5.20	2,380.20	2,356.28	137.11	-21.84	5.15	119.34	108.81	163.77	11.332

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-3410B - Plan D - ST-1_Actual Field Surveys

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft . Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
2,400.00	2,373.80	216.29	-119.37	5.25	2,411.87	2,387.08	144.43	-21.59	5.19	122.43	111.85	162.02	11.565
2,459.00	2,430.64	229.13	-128.60	5.34	2,469.95	2,443.59	157.86	-21.13	5.27	129.93	119.24	159.21	12.152
2,500.00	2,469.97	238.48	-135.45	5.41	2,509.71	2,482.28	167.00	-20.71	5.33	136.05	125.23	158.53	12.578
2,551.00	2,518.97	249.71	-144.02	5.49	2,559.05	2,530.31	178.25	-19.94	5.40	143.90	132.93	157.77	13.113
2,600.00	2,566.13	260.20	-152.23	5.58	2,606.20	2,576.15	189.25	-18.74	5.47	151.73	140.59	155.82	13.618
2,642.00	2,606.60	269.03	-159.16	5.66	2,646.61	2,615.33	199.00	-17.26	5.54	158.67	147.38	154.08	14.053
2,700.00	2,662.37	281.98	-168.45	5.77	2,704.00	2,670.99	212.82	-15.14	5.64	168.59	157.09	147.20	14.667
2,733.00	2,693.94	290.09	-173.55	5.84	2,736.77	2,702.83	220.56	-14.10	5.69	174.36	162.75	143.99	15.023
2,800.00	2,758.00	306.84	-183.78	5.98	2,803.71	2,767.95	235.94	-12.44	5.81	185.88	174.04	143.85	15.698
2,825.00	2,781.94	312.96	-187.61	6.03	2,823.00	2,786.74	240.26	-12.09	5.84	190.14	178.22	143.95	15.955
2,900.00	2,854.15	330.61	-197.49	6.19	2,823.00	2,786.74	240.26	-12.09	5.84	216.07	203.97	137.81	17.867
2,917.00	2,870.61	334.46	-199.29	6.22	2,823.00	2,786.74	240.26	-12.09	5.84	224.62	212.49	136.18	18.517
3,000.00	2,951.33	352.00	-207.39	6.39	2,823.00	2,786.74	240.26	-12.09	5.84	277.01	264.76	138.46	22.606
3,008.00	2,959.14	353.58	-208.14	6.41	2,823.00	2,786.74	240.26	-12.09	5.84	282.79	270.52	138.72	23.057
3,100.00	3,049.28	369.97	-216.48	6.59	2,823.00	2,786.74	240.26	-12.09	5.84	354.90	342.53	143.87	28.681
3,192.00	3,139.53	386.26	-223.69	6.76	2,823.00	2,786.74	240.26	-12.09	5.84	434.09	421.48	131.40	34.417
3,200.00	3,147.36	387.81	-224.25	6.78	2,823.00	2,786.74	240.26	-12.09	5.84	441.21	428.58	131.46	34.945
3,283.00	3,228.60	403.78	-230.04	6.94	2,823.00	2,786.74	240.26	-12.09	5.84	516.56	503.80	132.13	40.485
3,300.00	3,245.24	407.04	-231.22	6.98	2,823.00	2,786.74	240.26	-12.09	5.84	532.27	519.48	131.99	41.616
3,375.00	3,318.68	421.38	-236.36	7.13	2,823.00	2,786.74	240.26	-12.09	5.84	602.39	589.46	131.38	46.604
3,400.00	3,343.16	426.15	-238.07	7.18	2,823.00	2,786.74	240.26	-12.09	5.84	626.01	613.05	132.00	48.284
3,467.00	3,408.76	438.91	-242.86	7.32	2,823.00	2,786.74	240.26	-12.09	5.84	689.85	676.78	133.67	52.780
3,500.00	3,441.06	445.20	-245.33	7.39	2,823.00	2,786.74	240.26	-12.09	5.84	721.53	708.41	134.11	54.959
3,558.00	3,497.80	456.33	-249.84	7.52	2,823.00	2,786.74	240.26	-12.09	5.84	777.53	764.30	134.87	58.765
3,600.00	3,538.88	464.38	-253.24	7.61	2,823.00	2,786.74	240.26	-12.09	5.84	818.28	805.00	136.35	61.579
3,649.00	3,586.82	473.66	-257.33	7.72	2,823.00	2,786.74	240.26	-12.09	5.84	866.00	852.64	138.14	64.852
3,700.00	3,636.73	483.21	-261.68	7.83	2,823.00	2,786.74	240.26	-12.09	5.84	915.81	902.38	139.06	68.178
3,741.00	3,676.87	490.81	-265.20	7.92	2,823.00	2,786.74	240.26	-12.09	5.84	955.94	942.45	139.83	70.832
3,800.00	3,734.66	501.48	-270.45	8.06	2,823.00	2,786.74	240.26	-12.09	5.84	1,013.82	1,000.30	144.82	74.981
3,832.00	3,766.02	507.10	-273.43	8.13	2,823.00	2,786.74	240.26	-12.09	5.84	1,045.28	1,031.75	147.65	77.248
3,900.00	3,832.67	518.90	-279.93	8.28	2,823.00	2,786.74	240.26	-12.09	5.84	1,112.24	1,098.58	147.80	81.451
3,924.00	3,856.19	523.08	-282.23	8.34	2,823.00	2,786.74	240.26	-12.09	5.84	1,135.90	1,122.20	147.85	82.918
4,000.00	3,930.33	538.42	-288.78	8.52	2,823.00	2,786.74	240.26	-12.09	5.84	1,210.94	1,196.39	116.34	83.233
4,015.00	3,944.87	541.94	-289.89	8.55	2,823.00	2,786.74	240.26	-12.09	5.84	1,225.76	1,211.06	110.60	83.381
4,100.00	4,026.80	563.67	-296.14	8.77	2,823.00	2,786.74	240.26	-12.09	5.84	1,309.80	1,294.62	97.20	86.262
4,106.00	4,032.55	565.30	-296.59	8.78	2,823.00	2,786.74	240.26	-12.09	5.84	1,315.74	1,300.52	96.22	86.485
4,197.00	4,120.02	589.46	-303.49	9.03	2,823.00	2,786.74	240.26	-12.09	5.84	1,405.87	1,390.55	103.98	91.729
4,200.00	4,122.91	590.23	-303.72	9.04	2,823.00	2,786.74	240.26	-12.09	5.84	1,408.85	1,393.52	104.16	91.903
4,289.00	4,208.82	612.55	-310.21	9.28	2,823.00	2,786.74	240.26	-12.09	5.84	1,497.08	1,481.67	109.42	97.144
4,300.00	4,219.46	615.22	-310.98	9.30	2,823.00	2,786.74	240.26	-12.09	5.84	1,507.98	1,492.59	111.13	97.966
4,380.00	4,297.13	633.52	-316.60	9.51	2,823.00	2,786.74	240.26	-12.09	5.84	1,587.32	1,572.12	123.80	104.397
4,400.00	4,316.63	637.77	-317.98	9.56	2,823.00	2,786.74	240.26	-12.09	5.84	1,607.16	1,592.03	127.07	106.240
4,473.00	4,388.08	651.93	-322.68	9.74	2,823.00	2,786.74	240.26	-12.09	5.84	1,679.47	1,664.58	137.55	112.783
4,500.00	4,414.61	656.70	-324.27	9.80	2,823.00	2,786.74	240.26	-12.09	5.84	1,706.18	1,691.29	138.40	114.526
4,563.00	4,476.63	667.24	-327.62	9.95	2,823.00	2,786.74	240.26	-12.09	5.84	1,768.46	1,753.54	139.97	118.491
4,600.00	4,513.16	672.88	-329.35	10.03	2,823.00	2,786.74	240.26	-12.09	5.84	1,804.98	1,790.13	143.83	121.527
4,655.00	4,567.64	680.10	-331.57	10.14	2,823.00	2,786.74	240.26	-12.09	5.84	1,859.15	1,844.35	148.56	125.656
4,700.00	4,612.32	685.20	-333.13	10.23	2,823.00	2,786.74	240.26	-12.09	5.84	1,903.37	1,888.54	150.34	128.397
4,747.00	4,659.05	690.02	-334.61	10.33	2,823.00	2,786.74	240.26	-12.09	5.84	1,949.51	1,934.65	152.06	131.186
4,800.00	4,711.86	694.17	-336.13	10.42	2,823.00	2,786.74	240.26	-12.09	5.84	2,001.39	1,986.60	166.46	135.332
4,839.00	4,750.80	695.95	-337.19	10.49	2,823.00	2,786.74	240.26	-12.09	5.84	2,039.38	2,024.60	-175.25	137.945
4,900.00	4,811.78	696.85	-338.14	10.57	2,823.00	2,786.74	240.26	-12.09	5.84	2,098.43	2,083.56	-98.05	141.042

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-3410B - Plan D - ST-1_Actual Field Surveys

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft . Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
4,931.00	4,842.78	696.50	-338.13	10.62	2,823.00	2,786.74	240.26	-12.09	5.84	2,128.24	2,113.32	-17.72	142.619
5,000.00	4,911.75	694.54	-337.59	10.70	2,823.00	2,786.74	240.26	-12.09	5.84	2,194.36	2,179.35	-18.21	146.172
5,023.00	4,934.73	693.63	-337.35	10.73	2,823.00	2,786.74	240.26	-12.09	5.84	2,216.37	2,201.33	-18.09	147.342
5,100.00	5,011.59	689.06	-336.40	10.81	2,823.00	2,786.74	240.26	-12.09	5.84	2,289.80	2,274.68	-19.83	151.444
5,115.00	5,026.54	687.87	-336.20	10.83	2,823.00	2,786.74	240.26	-12.09	5.84	2,304.05	2,288.91	-19.80	152.223
5,146.00	5,057.22	683.54	-336.20	10.86	2,823.00	2,786.74	240.26	-12.09	5.84	2,333.02	2,317.94	-22.46	154.724
5,176.00	5,086.39	676.58	-336.48	10.87	2,823.00	2,786.74	240.26	-12.09	5.84	2,360.12	2,345.09	-17.92	157.034
5,200.00	5,109.28	669.39	-336.66	10.87	2,823.00	2,786.74	240.26	-12.09	5.84	2,381.12	2,366.16	-16.13	159.124
5,206.00	5,114.93	667.36	-336.72	10.87	2,823.00	2,786.74	240.26	-12.09	5.84	2,386.26	2,371.32	-15.74	159.689
5,238.00	5,144.15	654.39	-337.45	10.86	2,823.00	2,786.74	240.26	-12.09	5.84	2,412.59	2,397.85	-13.91	163.673
5,268.00	5,170.13	639.46	-338.68	10.85	2,823.00	2,786.74	240.26	-12.09	5.84	2,435.62	2,421.06	-12.81	167.247
5,299.00	5,195.92	622.32	-340.13	10.82	2,823.00	2,786.74	240.26	-12.09	5.84	2,458.30	2,443.85	-12.09	170.071
5,300.00	5,196.73	621.75	-340.18	10.82	2,823.00	2,786.74	240.26	-12.09	5.84	2,459.02	2,444.57	-12.07	170.161
5,329.00	5,220.11	604.64	-341.48	10.79	2,823.00	2,786.74	240.26	-12.09	5.84	2,479.51	2,465.16	-11.46	172.800
5,359.00	5,243.93	586.43	-342.58	10.75	2,823.00	2,786.74	240.26	-12.09	5.84	2,500.41	2,486.05	-11.20	174.130
5,389.00	5,267.55	567.96	-343.56	10.72	2,823.00	2,786.74	240.26	-12.09	5.84	2,521.26	2,506.93	-11.06	175.923
5,400.00	5,276.11	561.07	-344.00	10.71	2,823.00	2,786.74	240.26	-12.09	5.84	2,528.85	2,514.53	-11.09	176.647
5,420.00	5,291.47	548.31	-345.03	10.69	2,823.00	2,786.74	240.26	-12.09	5.84	2,542.52	2,528.23	-11.11	177.981
5,451.00	5,314.73	527.89	-346.79	10.66	2,823.00	2,786.74	240.26	-12.09	5.84	2,563.26	2,549.07	-10.67	180.597
5,482.00	5,337.45	506.86	-348.40	10.62	2,823.00	2,786.74	240.26	-12.09	5.84	2,583.60	2,569.44	-10.44	182.445
5,500.00	5,350.53	494.53	-349.31	10.60	2,823.00	2,786.74	240.26	-12.09	5.84	2,595.38	2,581.20	-10.46	183.040
5,513.00	5,359.98	485.63	-349.99	10.59	2,823.00	2,786.74	240.26	-12.09	5.84	2,603.94	2,589.75	-10.48	183.472
5,543.00	5,381.68	464.95	-351.26	10.56	2,823.00	2,786.74	240.26	-12.09	5.84	2,623.67	2,609.50	-10.14	185.186
5,573.00	5,402.95	443.81	-352.09	10.52	2,823.00	2,786.74	240.26	-12.09	5.84	2,643.08	2,628.99	-9.81	187.577
5,600.00	5,421.44	424.15	-352.46	10.49	2,823.00	2,786.74	240.26	-12.09	5.84	2,659.98	2,646.00	-9.36	190.178
5,605.00	5,424.79	420.43	-352.47	10.49	2,823.00	2,786.74	240.26	-12.09	5.84	2,663.04	2,649.07	-9.28	190.655
5,637.00	5,445.64	396.16	-352.23	10.45	2,823.00	2,786.74	240.26	-12.09	5.84	2,682.12	2,668.26	-8.89	193.566
5,669.00	5,465.87	371.38	-351.62	10.42	2,823.00	2,786.74	240.26	-12.09	5.84	2,700.76	2,686.91	-8.79	194.939
5,700.00	5,484.83	346.86	-351.02	10.39	2,823.00	2,786.74	240.26	-12.09	5.84	2,718.40	2,704.66	-8.57	197.741
5,732.00	5,503.39	320.80	-350.50	10.36	2,823.00	2,786.74	240.26	-12.09	5.84	2,735.85	2,722.18	-8.38	200.125
5,764.00	5,521.35	294.32	-349.90	10.33	2,823.00	2,786.74	240.26	-12.09	5.84	2,752.94	2,739.27	-8.31	201.431
5,795.00	5,538.21	268.31	-349.46	10.31	2,823.00	2,786.74	240.26	-12.09	5.84	2,769.23	2,755.62	-8.18	203.468
5,800.00	5,540.84	264.06	-349.43	10.30	2,823.00	2,786.74	240.26	-12.09	5.84	2,771.80	2,758.21	-8.14	203.973
5,827.00	5,554.39	240.71	-349.35	10.29	2,823.00	2,786.74	240.26	-12.09	5.84	2,785.14	2,771.66	-7.92	206.615
5,858.00	5,568.43	213.08	-349.71	10.27	2,823.00	2,786.74	240.26	-12.09	5.84	2,799.25	2,785.89	-7.67	209.590
5,890.00	5,581.05	183.69	-350.47	10.25	2,823.00	2,786.74	240.26	-12.09	5.84	2,812.31	2,799.07	-7.45	212.459
5,900.00	5,584.66	174.37	-350.72	10.25	2,823.00	2,786.74	240.26	-12.09	5.84	2,816.12	2,802.89	-7.43	212.781
5,921.00	5,592.06	154.72	-351.27	10.23	2,823.00	2,786.74	240.26	-12.09	5.84	2,824.07	2,810.83	-7.39	213.444
5,953.00	5,602.81	124.59	-352.04	10.21	2,823.00	2,786.74	240.26	-12.09	5.84	2,835.89	2,822.67	-7.33	214.563
5,984.00	5,612.02	95.00	-352.61	10.19	2,823.00	2,786.74	240.26	-12.09	5.84	2,846.45	2,833.29	-7.20	216.359
6,000.00	5,616.27	79.58	-352.87	10.18	2,823.00	2,786.74	240.26	-12.09	5.84	2,851.52	2,838.36	-7.17	216.660
6,016.00	5,620.39	64.12	-353.19	10.17	2,823.00	2,786.74	240.26	-12.09	5.84	2,856.56	2,843.40	-7.14	216.957
6,047.00	5,627.67	33.99	-353.66	10.20	2,823.00	2,786.74	240.26	-12.09	5.84	2,865.84	2,852.68	-7.10	217.875
6,079.00	5,633.60	2.55	-353.73	10.28	2,823.00	2,786.74	240.26	-12.09	5.84	2,874.15	2,861.01	-7.04	218.725
6,100.00	5,636.74	-18.21	-353.61	10.33	2,823.00	2,786.74	240.26	-12.09	5.84	2,879.03	2,865.88	-7.04	218.813
6,112.00	5,638.42	-30.09	-353.51	10.37	2,823.00	2,786.74	240.26	-12.09	5.84	2,881.77	2,868.61	-7.04	218.849
6,200.00	5,647.45	-117.61	-352.98	13.37	2,823.00	2,786.74	240.26	-12.09	5.84	2,900.13	2,887.08	-6.89	222.300
6,221.00	5,648.72	-138.57	-352.96	14.15	2,823.00	2,786.74	240.26	-12.09	5.84	2,904.03	2,891.02	-6.86	223.140
6,300.00	5,653.50	-217.42	-352.57	14.20	2,823.00	2,786.74	240.26	-12.09	5.84	2,920.02	2,906.91	-6.96	222.818
6,315.00	5,654.56	-232.38	-352.42	14.21	2,823.00	2,786.74	240.26	-12.09	5.84	2,923.42	2,910.30	-6.98	222.778
6,400.00	5,659.08	-317.25	-351.76	14.27	2,823.00	2,786.74	240.26	-12.09	5.84	2,942.67	2,929.69	-6.85	226.700
6,410.00	5,659.40	-327.25	-351.72	14.27	2,823.00	2,786.74	240.26	-12.09	5.84	2,944.88	2,931.92	-6.83	227.132

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-3410B - Plan D - ST-1_Actual Field Surveys

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
6,500.00	5,660.22	-417.24	-352.30	14.34	2,823.00	2,786.74	240.26	-12.09	5.84	2,964.40	2,951.54	-6.53	230.490
6,504.00	5,660.17	-421.24	-352.36	14.34	2,823.00	2,786.74	240.26	-12.09	5.84	2,965.25	2,952.39	-6.52	230.626
6,599.00	5,659.29	-516.22	-353.62	14.41	2,823.00	2,786.74	240.26	-12.09	5.84	2,987.17	2,974.23	-6.64	230.734
6,600.00	5,659.29	-517.22	-353.63	14.41	2,823.00	2,786.74	240.26	-12.09	5.84	2,987.42	2,974.48	-6.63	230.732
6,693.00	5,659.15	-610.17	-356.52	14.48	2,823.00	2,786.74	240.26	-12.09	5.84	3,012.53	2,999.48	-5.97	230.777
6,700.00	5,659.17	-617.16	-356.89	14.49	2,823.00	2,786.74	240.26	-12.09	5.84	3,014.57	3,001.51	-5.92	230.783
6,788.00	5,659.67	-704.93	-363.18	14.56	2,823.00	2,786.74	240.26	-12.09	5.84	3,041.90	3,028.73	-5.32	231.023
6,800.00	5,659.76	-716.89	-364.20	14.58	2,823.00	2,786.74	240.26	-12.09	5.84	3,045.84	3,032.67	-5.42	231.245
6,883.00	5,659.59	-799.71	-369.49	14.66	2,823.00	2,786.74	240.26	-12.09	5.84	3,073.32	3,060.11	-6.15	232.687
6,900.00	5,659.40	-816.70	-370.16	14.68	2,823.00	2,786.74	240.26	-12.09	5.84	3,079.01	3,065.79	-6.37	232.795
6,977.00	5,658.30	-893.68	-371.02	14.77	2,823.00	2,786.74	240.26	-12.09	5.84	3,105.36	3,092.05	-7.36	233.258
7,000.00	5,657.93	-916.67	-370.73	14.80	2,823.00	2,786.74	240.26	-12.09	5.84	3,113.45	3,100.11	-7.36	233.232
7,072.00	5,656.94	-988.66	-369.82	14.90	2,823.00	2,786.74	240.26	-12.09	5.84	3,139.91	3,126.45	-7.39	233.232
7,100.00	5,656.59	-1,016.66	-369.60	14.94	2,823.00	2,786.74	240.26	-12.09	5.84	3,150.63	3,137.13	-7.15	233.415
7,166.00	5,655.60	-1,082.65	-370.14	15.07	2,823.00	2,786.74	240.26	-12.09	5.84	3,176.70	3,163.12	-6.56	233.931
7,200.00	5,655.12	-1,116.64	-370.53	15.15	2,823.00	2,786.74	240.26	-12.09	5.84	3,190.62	3,176.96	-7.00	233.596
7,261.00	5,654.73	-1,177.63	-369.85	15.33	2,823.00	2,786.74	240.26	-12.09	5.84	3,216.60	3,202.80	-7.83	232.992
7,300.00	5,654.63	-1,216.63	-369.39	15.47	2,823.00	2,786.74	240.26	-12.09	5.84	3,233.85	3,219.99	-7.03	233.477
7,355.00	5,654.34	-1,271.61	-370.61	15.70	2,823.00	2,786.74	240.26	-12.09	5.84	3,258.87	3,244.95	-5.86	234.249
7,400.00	5,654.03	-1,316.56	-372.60	15.92	2,823.00	2,786.74	240.26	-12.09	5.84	3,279.91	3,265.92	-5.71	234.438
7,450.00	5,653.67	-1,366.50	-375.06	16.19	2,823.00	2,786.74	240.26	-12.09	5.84	3,303.86	3,289.79	-5.55	234.694
7,500.00	5,653.42	-1,416.47	-376.66	16.49	2,823.00	2,786.74	240.26	-12.09	5.84	3,328.41	3,314.19	-6.84	234.007
7,545.00	5,653.41	-1,461.47	-376.41	16.76	2,823.00	2,786.74	240.26	-12.09	5.84	3,351.00	3,336.63	-8.03	233.256
7,600.00	5,653.58	-1,516.46	-375.76	17.12	2,823.00	2,786.74	240.26	-12.09	5.84	3,379.33	3,364.87	-7.27	233.683
7,639.00	5,653.80	-1,555.46	-376.06	17.37	2,823.00	2,786.74	240.26	-12.09	5.84	3,399.99	3,385.46	-6.71	234.051
7,700.00	5,654.16	-1,616.43	-378.07	17.79	2,823.00	2,786.74	240.26	-12.09	5.84	3,433.09	3,418.48	-5.45	235.006
7,734.00	5,654.33	-1,650.36	-380.10	18.03	2,823.00	2,786.74	240.26	-12.09	5.84	3,451.92	3,437.26	-4.73	235.549
7,800.00	5,654.58	-1,716.12	-385.69	18.51	2,823.00	2,786.74	240.26	-12.09	5.84	3,489.17	3,474.41	-3.52	236.393
7,828.00	5,654.67	-1,743.96	-388.68	18.71	2,823.00	2,786.74	240.26	-12.09	5.84	3,505.25	3,490.44	-2.99	236.742
7,900.00	5,655.24	-1,815.84	-391.45	19.23	2,823.00	2,786.74	240.26	-12.09	5.84	3,547.19	3,531.93	-9.09	232.402
7,923.00	5,655.59	-1,838.79	-390.06	19.40	2,823.00	2,786.74	240.26	-12.09	5.84	3,560.67	3,545.21	-11.03	230.233
8,000.00	5,656.61	-1,915.59	-384.67	19.98	2,823.00	2,786.74	240.26	-12.09	5.84	3,606.31	3,590.76	-9.81	231.867
8,018.00	5,656.78	-1,933.57	-383.73	20.11	2,823.00	2,786.74	240.26	-12.09	5.84	3,617.11	3,601.54	-9.52	232.264
8,100.00	5,657.14	-2,015.50	-380.45	20.76	2,823.00	2,786.74	240.26	-12.09	5.84	3,666.89	3,651.19	-8.68	233.464
8,113.00	5,657.14	-2,028.49	-380.07	20.86	2,823.00	2,786.74	240.26	-12.09	5.84	3,674.86	3,659.14	-8.55	233.661
8,200.00	5,654.81	-2,115.43	-378.10	21.56	2,823.00	2,786.74	240.26	-12.09	5.84	3,727.18	3,711.38	-7.77	235.957
8,205.00	5,654.54	-2,120.42	-378.01	21.60	2,823.00	2,786.74	240.26	-12.09	5.84	3,730.12	3,714.32	-7.72	236.062
8,244.17	5,653.36	-2,159.56	-377.00	21.82	2,823.00	2,786.74	240.26	-12.09	5.84	3,754.01	3,737.95	-8.87	233.769
8,300.00	5,653.11	-2,215.35	-375.05	21.97	2,823.00	2,786.74	240.26	-12.09	5.84	3,789.55	3,773.48	-8.87	235.836
8,389.17	5,652.72	-2,304.47	-371.94	22.24	2,823.00	2,786.74	240.26	-12.09	5.84	3,847.31	3,831.22	-8.87	239.067
8,400.00	5,652.68	-2,315.29	-371.58	22.27	2,823.00	2,786.74	240.26	-12.09	5.84	3,854.41	3,838.33	-8.70	239.592
8,439.76	5,652.67	-2,355.04	-370.59	22.40	2,823.00	2,786.74	240.26	-12.09	5.84	3,880.78	3,864.71	-8.09	241.525
8,500.00	5,652.79	-2,415.27	-369.47	22.60	2,823.00	2,786.74	240.26	-12.09	5.84	3,921.30	3,905.21	-8.09	243.671
8,600.00	5,652.99	-2,515.25	-367.63	22.97	2,823.00	2,786.74	240.26	-12.09	5.84	3,989.67	3,973.52	-8.09	247.128
8,700.00	5,653.20	-2,615.23	-365.79	23.38	2,823.00	2,786.74	240.26	-12.09	5.84	4,059.35	4,043.14	-8.09	250.449
8,800.00	5,653.40	-2,715.22	-363.94	23.82	2,823.00	2,786.74	240.26	-12.09	5.84	4,130.28	4,113.99	-8.09	253.628
8,900.00	5,653.60	-2,815.20	-362.10	24.29	2,823.00	2,786.74	240.26	-12.09	5.84	4,202.38	4,186.01	-8.09	256.658
9,000.00	5,653.81	-2,915.18	-360.25	24.79	2,823.00	2,786.74	240.26	-12.09	5.84	4,275.62	4,259.14	-8.09	259.536
9,100.00	5,654.01	-3,015.16	-358.41	25.32	2,823.00	2,786.74	240.26	-12.09	5.84	4,349.92	4,333.33	-8.09	262.260
9,200.00	5,654.22	-3,115.15	-356.56	25.88	2,823.00	2,786.74	240.26	-12.09	5.84	4,425.23	4,408.52	-8.09	264.830
9,300.00	5,654.42	-3,215.13	-354.72	26.46	2,823.00	2,786.74	240.26	-12.09	5.84	4,501.50	4,484.65	-8.09	267.247
9,400.00	5,654.62	-3,315.11	-352.87	27.06	2,823.00	2,786.74	240.26	-12.09	5.84	4,578.68	4,561.70	-8.09	269.511

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-3410B - Plan D - ST-1_Actual Field Surveys

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
9,500.00	5,654.83	-3,415.10	-351.03	27.69	2,823.00	2,786.74	240.26	-12.09	5.84	4,656.74	4,639.59	-8.09	271.627
9,584.92	5,655.00	-3,500.00	-349.46	28.23	2,823.00	2,786.74	240.26	-12.09	5.84	4,723.67	4,706.39	-8.09	273.310
9,600.00	5,655.06	-3,515.08	-349.21	28.32	2,823.00	2,786.74	240.26	-12.09	5.84	4,735.64	4,718.35	-7.82	274.019
9,653.95	5,655.66	-3,569.03	-348.84	28.63	2,823.00	2,786.74	240.26	-12.09	5.84	4,778.86	4,761.58	-6.82	276.547
9,700.00	5,656.44	-3,615.07	-348.86	28.91	2,823.00	2,786.74	240.26	-12.09	5.84	4,816.11	4,798.75	-6.82	277.457
9,800.00	5,658.14	-3,715.05	-348.90	29.59	2,823.00	2,786.74	240.26	-12.09	5.84	4,897.52	4,879.98	-6.82	279.309
9,900.00	5,659.84	-3,815.04	-348.95	30.28	2,823.00	2,786.74	240.26	-12.09	5.84	4,979.60	4,961.88	-6.82	281.026
10,000.00	5,661.54	-3,915.02	-348.99	30.99	2,823.00	2,786.74	240.26	-12.09	5.84	5,062.32	5,044.41	-6.82	282.615
10,100.00	5,663.24	-4,015.01	-349.03	31.72	2,823.00	2,786.74	240.26	-12.09	5.84	5,145.66	5,127.55	-6.82	284.082
10,200.00	5,664.95	-4,114.99	-349.08	32.46	2,823.00	2,786.74	240.26	-12.09	5.84	5,229.59	5,211.27	-6.82	285.432
10,300.00	5,666.65	-4,214.98	-349.12	33.21	2,823.00	2,786.74	240.26	-12.09	5.84	5,314.07	5,295.53	-6.82	286.672
10,400.00	5,668.35	-4,314.97	-349.16	33.97	2,823.00	2,786.74	240.26	-12.09	5.84	5,399.08	5,380.32	-6.82	287.807
10,500.00	5,670.05	-4,414.95	-349.21	34.74	2,823.00	2,786.74	240.26	-12.09	5.84	5,484.60	5,465.61	-6.82	288.844
10,600.00	5,671.75	-4,514.94	-349.25	35.53	2,823.00	2,786.74	240.26	-12.09	5.84	5,570.60	5,551.37	-6.82	289.789
10,700.00	5,673.45	-4,614.92	-349.29	36.32	2,823.00	2,786.74	240.26	-12.09	5.84	5,657.06	5,637.59	-6.82	290.647
10,800.00	5,675.15	-4,714.91	-349.34	37.12	2,823.00	2,786.74	240.26	-12.09	5.84	5,743.95	5,724.24	-6.82	291.424
10,900.00	5,676.85	-4,814.89	-349.38	37.93	2,823.00	2,786.74	240.26	-12.09	5.84	5,831.27	5,811.31	-6.82	292.125
11,000.00	5,678.55	-4,914.88	-349.42	38.75	2,823.00	2,786.74	240.26	-12.09	5.84	5,918.99	5,898.77	-6.82	292.755
11,085.13	5,680.00	-5,000.00	-349.46	39.46	2,823.00	2,786.74	240.26	-12.09	5.84	5,993.98	5,973.54	-6.82	293.240
11,100.00	5,680.21	-5,014.86	-349.47	39.58	2,823.00	2,786.74	240.26	-12.09	5.84	6,007.08	5,986.62	-6.78	293.575
11,120.18	5,680.38	-5,035.04	-349.47	39.75	2,823.00	2,786.74	240.26	-12.09	5.84	6,024.82	6,004.32	-6.72	294.015
11,200.00	5,680.76	-5,114.86	-349.47	40.41	2,823.00	2,786.74	240.26	-12.09	5.84	6,095.01	6,074.31	-6.72	294.388
11,300.00	5,681.24	-5,214.86	-349.47	41.25	2,823.00	2,786.74	240.26	-12.09	5.84	6,183.28	6,162.31	-6.72	294.805
11,400.00	5,681.72	-5,314.86	-349.47	42.10	2,823.00	2,786.74	240.26	-12.09	5.84	6,271.90	6,250.65	-6.72	295.172
11,500.00	5,682.20	-5,414.86	-349.46	42.95	2,823.00	2,786.74	240.26	-12.09	5.84	6,360.86	6,339.33	-6.72	295.491
11,600.00	5,682.68	-5,514.86	-349.46	43.81	2,823.00	2,786.74	240.26	-12.09	5.84	6,450.14	6,428.33	-6.72	295.767
11,700.00	5,683.16	-5,614.86	-349.46	44.67	2,823.00	2,786.74	240.26	-12.09	5.84	6,539.73	6,517.64	-6.72	296.001
11,800.00	5,683.64	-5,714.86	-349.46	45.54	2,823.00	2,786.74	240.26	-12.09	5.84	6,629.62	6,607.24	-6.72	296.199
11,900.00	5,684.11	-5,814.85	-349.46	46.41	2,823.00	2,786.74	240.26	-12.09	5.84	6,719.79	6,697.12	-6.72	296.363
12,000.00	5,684.59	-5,914.85	-349.46	47.29	2,823.00	2,786.74	240.26	-12.09	5.84	6,810.24	6,787.27	-6.72	296.495
12,085.15	5,685.00	-6,000.00	-349.46	48.03	2,823.00	2,786.74	240.26	-12.09	5.84	6,887.47	6,864.24	-6.72	296.584
12,100.00	5,685.03	-6,014.85	-349.46	48.17	2,823.00	2,786.74	240.26	-12.09	5.84	6,900.94	6,877.70	-6.64	296.904
12,198.86	5,683.29	-6,113.69	-349.46	49.04	2,823.00	2,786.74	240.26	-12.09	5.84	6,989.93	6,966.53	-6.18	298.776
12,200.00	5,683.25	-6,114.83	-349.46	49.05	2,823.00	2,786.74	240.26	-12.09	5.84	6,990.95	6,967.55	-6.18	298.776
12,300.00	5,679.76	-6,214.77	-349.46	49.94	2,823.00	2,786.74	240.26	-12.09	5.84	7,080.50	7,056.80	-6.18	298.762
12,400.00	5,676.27	-6,314.71	-349.46	50.83	2,823.00	2,786.74	240.26	-12.09	5.84	7,170.32	7,146.32	-6.18	298.729
12,500.00	5,672.78	-6,414.65	-349.46	51.72	2,823.00	2,786.74	240.26	-12.09	5.84	7,260.41	7,236.10	-6.18	298.679
12,600.00	5,669.29	-6,514.59	-349.46	52.62	2,823.00	2,786.74	240.26	-12.09	5.84	7,350.75	7,326.14	-6.18	298.612
12,700.00	5,665.80	-6,614.53	-349.46	53.52	2,823.00	2,786.74	240.26	-12.09	5.84	7,441.35	7,416.42	-6.18	298.531
12,800.00	5,662.31	-6,714.47	-349.46	54.42	2,823.00	2,786.74	240.26	-12.09	5.84	7,532.18	7,506.94	-6.18	298.437
12,900.00	5,658.82	-6,814.41	-349.46	55.33	2,823.00	2,786.74	240.26	-12.09	5.84	7,623.24	7,597.68	-6.18	298.331
13,000.00	5,655.33	-6,914.34	-349.46	56.23	2,823.00	2,786.74	240.26	-12.09	5.84	7,714.52	7,688.65	-6.18	298.214
13,100.00	5,651.84	-7,014.28	-349.46	57.14	2,823.00	2,786.74	240.26	-12.09	5.84	7,806.01	7,779.83	-6.18	298.087
13,117.21	5,651.24	-7,031.48	-349.46	57.30	2,823.00	2,786.74	240.26	-12.09	5.84	7,821.78	7,795.54	-6.18	298.065

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-2209A - Plan C - Rev C0

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre		Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre		Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
		+N/-S (usft)	+E/-W (usft)				+N/-S (usft)	+E/-W (usft)					
100.00	100.00	0.04	-0.03	3.29	100.00	100.00	0.00	32.11	3.29	32.15	24.60	127.23	4.260
177.00	177.00	0.14	-0.10	3.29	177.00	177.00	0.00	32.11	3.30	32.22	24.66	127.39	4.262
200.00	200.00	0.19	-0.13	3.30	200.00	200.00	0.00	32.11	3.30	32.24	24.67	105.18	4.261
268.00	268.00	0.65	-0.17	3.31	268.00	268.00	0.00	32.11	3.32	32.29	24.69	93.25	4.250
300.00	300.00	0.97	-0.19	3.32	300.00	300.00	0.00	32.11	3.33	32.32	24.70	96.03	4.243
359.00	358.99	1.58	-0.26	3.34	358.99	358.99	0.00	32.11	3.36	32.41	24.75	100.82	4.230
400.00	399.99	2.02	-0.35	3.36	399.99	399.99	0.00	32.11	3.38	32.52	24.83	108.89	4.225
451.00	450.99	2.56	-0.54	3.38	450.99	450.99	0.00	32.11	3.40	32.75	25.00	118.35	4.227
500.00	499.98	3.08	-0.76	3.41	499.98	499.98	0.00	32.11	3.43	33.02	25.22	117.20	4.231
544.00	543.98	3.57	-0.95	3.43	543.98	543.98	0.00	32.11	3.46	33.25	25.40	116.26	4.232
600.00	599.98	4.08	-1.19	3.46	599.98	599.98	0.00	32.11	3.51	33.55	25.62	129.85	4.229
635.00	634.98	4.28	-1.35	3.49	634.98	634.98	0.00	32.11	3.53	33.74	25.75	145.49	4.226
700.00	699.98	4.48	-1.60	3.53	699.98	699.98	0.00	32.11	3.59	34.01	25.93	154.97	4.208
727.00	726.98	4.52	-1.68	3.55	726.98	726.98	0.00	32.11	3.61	34.09	25.96	164.19	4.195
800.00	799.98	4.49	-1.93	3.61	799.98	799.98	0.00	32.11	3.69	34.34	26.08	-148.58	4.159
819.00	818.98	4.44	-2.02	3.62	818.98	818.98	0.00	32.11	3.70	34.42	26.13	-143.69	4.152
900.00	899.98	4.28	-2.30	3.70	899.98	899.98	0.00	32.11	3.79	34.68	26.23	-144.54	4.104
911.00	910.97	4.27	-2.32	3.71	910.97	910.97	0.00	32.11	3.80	34.70	26.22	-144.80	4.095
993.00	992.97	4.89	-2.69	3.79	992.97	992.97	0.00	32.11	3.90	35.14	26.49	123.23	4.062
1,000.00	999.97	5.00	-2.74	3.80	999.97	999.97	0.00	32.11	3.91	35.21	26.54	121.14	4.062
1,087.00	1,086.93	7.57	-3.42	3.89	1,087.95	1,087.93	-0.18	30.78	4.01	35.08	26.22	114.02	3.957
1,100.00	1,099.91	8.13	-3.53	3.91	1,101.08	1,101.06	-0.24	30.35	4.03	34.91	26.02	113.37	3.924
1,176.00	1,175.78	12.54	-3.97	4.00	1,177.67	1,177.55	-0.76	26.66	4.12	33.44	24.36	116.85	3.684
1,200.00	1,199.72	14.29	-4.09	4.03	1,201.77	1,201.61	-0.98	25.08	4.15	32.98	23.85	122.66	3.611
1,250.66	1,250.22	18.35	-4.55	4.10	1,252.54	1,252.22	-1.54	21.10	4.21	32.52	23.26	135.66	3.514
1,268.00	1,267.49	19.86	-4.76	4.12	1,269.87	1,269.48	-1.76	19.53	4.23	32.59	23.29	140.33	3.505
1,300.00	1,299.35	22.82	-5.26	4.16	1,301.80	1,301.24	-2.21	16.38	4.28	33.14	23.76	149.62	3.535
1,360.00	1,359.01	29.01	-6.57	4.25	1,361.43	1,360.47	-3.16	9.56	4.36	36.02	26.49	166.56	3.781
1,400.00	1,398.73	33.60	-7.76	4.31	1,400.99	1,399.68	-3.90	4.37	4.42	39.42	29.79	177.88	4.093
1,451.00	1,449.28	40.00	-9.75	4.38	1,451.22	1,449.35	-4.93	-3.00	4.50	45.44	35.66	-169.92	4.648
1,500.00	1,497.77	46.65	-12.21	4.46	1,499.24	1,496.71	-6.03	-10.86	4.57	52.72	42.79	-159.18	5.313
1,542.00	1,539.25	52.69	-14.82	4.52	1,540.22	1,537.03	-7.06	-18.18	4.64	59.89	50.14	-151.71	6.144
1,600.00	1,596.52	60.92	-18.80	4.57	1,596.94	1,592.70	-8.57	-28.88	4.70	70.32	60.45	-144.06	7.122
1,636.00	1,632.11	65.72	-21.34	4.60	1,632.23	1,627.34	-9.50	-35.55	4.71	76.70	66.78	-139.89	7.731
1,700.00	1,695.37	74.10	-26.29	4.62	1,695.03	1,689.00	-11.17	-47.41	4.72	88.08	78.13	-132.98	8.852
1,728.00	1,723.02	77.79	-28.69	4.62	1,722.53	1,715.99	-11.90	-52.61	4.73	93.10	83.13	-130.46	9.342
1,800.00	1,793.94	87.89	-35.93	4.65	1,793.25	1,785.40	-13.78	-65.97	4.76	106.36	96.35	-125.03	10.626
1,819.00	1,812.59	90.74	-38.13	4.65	1,811.90	1,803.71	-14.28	-69.50	4.77	109.96	99.93	-124.00	10.971
1,900.00	1,891.68	105.13	-48.01	4.69	1,891.02	1,881.38	-16.38	-84.45	4.81	127.27	117.20	-130.12	12.644
1,911.00	1,902.35	107.40	-49.38	4.70	1,901.69	1,891.86	-16.66	-86.46	4.82	129.91	119.84	-130.82	12.900
2,000.00	1,988.11	127.83	-61.59	4.77	1,987.63	1,976.22	-18.94	-102.70	4.88	152.89	142.73	-131.19	15.061
2,002.00	1,990.02	128.33	-61.89	4.77	1,989.56	1,978.11	-18.99	-103.06	4.88	153.43	143.28	-131.21	15.112
2,094.00	2,078.12	150.97	-75.65	4.86	2,078.04	2,064.96	-21.34	-119.78	4.96	178.36	168.07	-131.81	17.326
2,100.00	2,083.87	152.42	-76.55	4.87	2,083.82	2,070.63	-21.50	-120.88	4.97	179.97	169.66	-131.83	17.464
2,185.00	2,165.55	172.32	-89.10	4.96	2,165.84	2,151.15	-23.68	-136.37	5.05	202.13	191.66	-131.76	19.314
2,200.00	2,180.01	175.69	-91.28	4.98	2,180.35	2,165.39	-24.06	-139.12	5.07	205.91	195.42	-131.61	19.617
2,277.00	2,254.41	192.13	-102.30	5.08	2,255.04	2,238.71	-26.04	-153.23	5.15	224.59	213.92	-130.51	21.056
2,300.00	2,276.71	196.79	-105.54	5.11	2,277.41	2,260.67	-26.64	-157.45	5.18	229.94	219.22	-130.39	21.452
2,368.00	2,342.75	210.01	-114.87	5.20	2,343.65	2,325.70	-28.40	-169.97	5.27	245.28	234.40	-129.89	22.545
2,400.00	2,373.80	216.29	-119.37	5.25	2,374.82	2,356.29	-29.22	-175.86	5.31	252.53	241.59	-129.70	23.068
2,459.00	2,430.64	229.13	-128.60	5.34	2,432.01	2,412.43	-30.74	-186.67	5.39	266.90	255.83	-129.59	24.103
2,500.00	2,469.97	238.48	-135.45	5.41	2,471.66	2,451.36	-31.80	-194.16	5.45	277.20	266.01	-129.01	24.775

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-2209A - Plan C - Rev C0

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
2,551.00	2,518.97	249.71	-144.02	5.49	2,521.09	2,499.87	-33.11	-203.50	5.52	289.64	278.30	-128.19	25.551
2,600.00	2,566.13	260.20	-152.23	5.58	2,568.65	2,546.56	-34.37	-212.49	5.60	301.31	289.83	-128.51	26.248
2,642.00	2,606.60	269.03	-159.16	5.66	2,609.45	2,586.61	-35.46	-220.20	5.66	311.19	299.58	-128.73	26.816
2,700.00	2,662.37	281.98	-168.45	5.77	2,665.61	2,641.74	-36.95	-230.81	5.76	325.62	313.87	-133.57	27.716
2,733.00	2,693.94	290.09	-173.55	5.84	2,697.35	2,672.90	-37.79	-236.80	5.81	334.59	322.76	-136.03	28.288
2,800.00	2,758.00	306.84	-183.78	5.98	2,761.72	2,736.09	-39.50	-248.97	5.93	353.10	341.05	-135.48	29.300
2,825.00	2,781.94	312.96	-187.61	6.03	2,785.78	2,759.70	-40.14	-253.51	5.97	359.88	347.74	-135.25	29.656
2,900.00	2,854.15	330.61	-197.49	6.19	2,858.06	2,830.66	-42.06	-267.17	6.10	379.86	367.47	-142.08	30.672
2,917.00	2,870.61	334.46	-199.29	6.22	2,874.46	2,846.75	-42.49	-270.27	6.13	384.32	371.87	-143.79	30.887
3,000.00	2,951.33	352.00	-207.39	6.39	2,954.76	2,925.58	-44.63	-285.44	6.29	405.05	392.30	-142.23	31.771
3,008.00	2,959.14	353.58	-208.14	6.41	2,962.52	2,933.20	-44.83	-286.91	6.30	406.95	394.17	-142.05	31.846
3,100.00	3,049.28	369.97	-216.48	6.59	3,052.14	3,021.17	-47.21	-303.84	6.48	427.15	414.02	-138.63	32.530
3,139.00	3,139.53	386.26	-223.69	6.76	3,141.67	3,109.05	-49.59	-320.76	6.67	447.56	434.15	-146.74	33.358
3,200.00	3,147.36	387.81	-224.25	6.78	3,149.42	3,116.66	-49.80	-322.22	6.69	449.49	436.04	-146.64	33.429
3,283.00	3,228.60	403.78	-230.04	6.94	3,229.84	3,195.60	-51.93	-337.42	6.86	469.36	455.61	-145.60	34.145
3,300.00	3,245.24	407.04	-231.22	6.98	3,246.31	3,211.77	-52.37	-340.53	6.89	473.42	459.61	-145.59	34.284
3,375.00	3,318.68	421.38	-236.36	7.13	3,318.99	3,283.12	-54.30	-354.26	7.05	491.36	477.27	-145.59	34.884
3,400.00	3,343.16	426.15	-238.07	7.18	3,343.22	3,306.90	-54.94	-358.84	7.10	497.34	483.16	-144.92	35.073
3,467.00	3,408.76	438.91	-242.86	7.32	3,408.18	3,370.66	-56.67	-371.12	7.25	513.32	498.89	-143.17	35.562
3,500.00	3,441.06	445.20	-245.33	7.39	3,440.18	3,402.08	-57.52	-377.16	7.32	521.18	506.62	-142.50	35.793
3,558.00	3,497.80	456.33	-249.84	7.52	3,496.44	3,457.31	-59.01	-387.79	7.45	535.02	520.24	-141.36	36.190
3,600.00	3,538.88	464.38	-253.24	7.61	3,537.20	3,497.31	-60.09	-395.49	7.54	545.01	530.06	-140.31	36.451
3,649.00	3,586.82	473.66	-257.33	7.72	3,584.78	3,544.02	-61.36	-404.49	7.65	556.53	541.38	-139.10	36.735
3,700.00	3,636.73	483.21	-261.68	7.83	3,634.34	3,592.67	-62.67	-413.85	7.77	568.40	553.04	-138.52	37.006
3,741.00	3,676.87	490.81	-265.20	7.92	3,674.20	3,631.80	-63.73	-421.38	7.86	577.87	562.34	-138.06	37.212
3,800.00	3,734.66	501.48	-270.45	8.06	3,731.64	3,688.18	-65.26	-432.23	8.00	591.21	575.43	-135.47	37.458
3,832.00	3,766.02	507.10	-273.43	8.13	3,762.84	3,718.81	-66.08	-438.13	8.07	598.24	582.32	-134.04	37.573
3,900.00	3,832.67	518.90	-279.93	8.28	3,829.18	3,783.93	-67.85	-450.66	8.23	613.03	596.82	-133.65	37.828
3,924.00	3,856.19	523.08	-282.23	8.34	3,852.59	3,806.91	-68.47	-455.09	8.29	618.25	601.95	-133.52	37.915
4,000.00	3,930.33	538.42	-288.78	8.52	3,926.20	3,879.17	-70.42	-469.00	8.47	637.01	620.46	-143.70	38.495
4,015.00	3,944.87	541.94	-289.89	8.55	3,940.58	3,893.29	-70.81	-471.72	8.50	641.23	624.64	-145.27	38.648
4,100.00	4,026.80	563.67	-296.14	8.77	4,021.62	3,972.83	-72.96	-487.03	8.70	666.81	649.92	-145.98	39.464
4,106.00	4,032.55	565.30	-296.59	8.78	4,027.31	3,978.42	-73.11	-488.10	8.72	668.71	651.79	-146.02	39.527
4,197.00	4,120.02	589.46	-303.49	9.03	4,113.82	4,063.35	-75.41	-504.45	8.93	696.88	679.54	-144.97	40.194
4,200.00	4,122.91	590.23	-303.72	9.04	4,116.68	4,066.15	-75.48	-504.99	8.94	697.79	680.44	-144.99	40.214
4,289.00	4,208.82	612.55	-310.21	9.28	4,201.65	4,149.56	-77.74	-521.04	9.16	724.19	706.43	-145.47	40.778
4,300.00	4,219.46	615.22	-310.98	9.30	4,212.17	4,159.89	-78.02	-523.03	9.18	727.38	709.57	-145.25	40.834
4,380.00	4,297.13	633.52	-316.60	9.51	4,289.00	4,235.30	-80.06	-537.55	9.38	749.55	731.35	-143.43	41.176
4,400.00	4,316.63	637.77	-317.98	9.56	4,308.28	4,254.23	-80.57	-541.19	9.43	754.80	736.50	-143.33	41.243
4,473.00	4,388.08	651.93	-322.68	9.74	4,378.93	4,323.59	-82.45	-554.54	9.61	772.80	754.15	-142.79	41.423
4,500.00	4,414.61	656.70	-324.27	9.80	4,405.15	4,349.32	-83.14	-559.50	9.68	779.07	760.30	-143.16	41.488
4,563.00	4,476.63	667.24	-327.62	9.95	4,472.01	4,415.02	-84.87	-571.77	9.83	793.14	774.08	-144.10	41.609
4,600.00	4,513.16	672.88	-329.35	10.03	4,513.28	4,455.70	-85.83	-578.64	9.91	800.68	781.45	-144.08	41.642
4,655.00	4,567.64	680.10	-331.57	10.14	4,575.10	4,516.82	-87.12	-587.84	10.01	810.49	791.03	-144.06	41.657
4,700.00	4,612.32	685.20	-333.13	10.23	4,626.03	4,567.31	-88.05	-594.43	10.09	817.45	797.82	-143.91	41.644
4,747.00	4,659.05	690.02	-334.61	10.33	4,679.48	4,620.42	-88.89	-600.39	10.17	823.92	804.11	-143.79	41.596
4,800.00	4,711.86	694.17	-336.13	10.42	4,740.10	4,680.77	-89.67	-605.97	10.26	829.57	809.56	-135.79	41.461
4,839.00	4,750.80	695.95	-337.19	10.49	4,784.91	4,725.47	-90.14	-609.28	10.33	832.23	812.08	-121.26	41.307
4,900.00	4,811.78	696.85	-338.14	10.57	4,855.20	4,795.64	-90.67	-613.07	10.42	834.28	813.94	-44.41	41.016
4,931.00	4,842.78	696.50	-338.13	10.62	4,890.95	4,831.38	-90.85	-614.34	10.47	834.47	814.04	35.84	40.833
5,000.00	4,911.75	694.54	-337.59	10.70	6,263.61	5,642.00	694.55	-615.56	15.23	781.37	759.11	110.23	35.103

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-2209A - Plan C - Rev C0

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
5,023.00	4,934.73	693.63	-337.35	10.73	6,262.70	5,642.00	693.64	-615.56	15.23	760.02	737.77	110.57	34.155
5,100.00	5,011.59	689.06	-336.40	10.81	6,258.13	5,642.00	689.08	-615.56	15.23	689.46	667.30	109.48	31.124
5,115.00	5,026.54	687.87	-336.20	10.83	6,256.94	5,642.00	687.89	-615.56	15.23	675.90	653.76	109.55	30.529
5,146.00	5,057.22	683.54	-336.20	10.86	6,252.61	5,642.00	683.56	-615.56	15.22	648.09	626.36	108.99	29.828
5,176.00	5,086.39	676.58	-336.48	10.87	6,245.65	5,642.00	676.59	-615.56	15.22	621.76	600.24	117.20	28.888
5,200.00	5,109.28	669.39	-336.66	10.87	6,238.46	5,642.00	669.41	-615.56	15.21	601.31	579.96	121.23	28.169
5,206.00	5,114.93	667.36	-336.72	10.87	6,236.43	5,642.00	667.37	-615.56	15.21	596.29	574.99	122.13	27.996
5,238.00	5,144.15	654.39	-337.45	10.86	6,223.46	5,642.00	654.41	-615.56	15.20	570.27	549.35	127.41	27.267
5,268.00	5,170.13	639.46	-338.68	10.85	6,208.53	5,642.00	639.47	-615.56	15.18	547.11	526.54	130.07	26.598
5,299.00	5,195.92	622.32	-340.13	10.82	6,191.39	5,642.00	622.33	-615.56	15.17	524.26	503.93	130.90	25.780
5,300.00	5,196.73	621.75	-340.18	10.82	6,190.82	5,642.00	621.76	-615.56	15.17	523.54	503.22	130.92	25.754
5,329.00	5,220.11	604.64	-341.48	10.79	6,173.71	5,642.00	604.65	-615.56	15.15	503.10	482.99	131.40	25.008
5,359.00	5,243.93	586.43	-342.58	10.75	6,155.50	5,642.00	586.44	-615.57	15.14	482.69	462.59	130.33	24.014
5,389.00	5,267.55	567.96	-343.56	10.72	6,137.03	5,642.00	567.97	-615.57	15.12	462.82	442.76	129.22	23.079
5,400.00	5,276.11	561.07	-344.00	10.71	6,130.14	5,642.00	561.08	-615.57	15.12	455.66	435.62	128.67	22.735
5,420.00	5,291.47	548.31	-345.03	10.69	6,117.38	5,642.00	548.32	-615.57	15.11	442.79	422.77	127.70	22.114
5,451.00	5,314.73	527.89	-346.79	10.66	6,096.96	5,642.00	527.90	-615.57	15.09	423.49	403.61	127.36	21.303
5,482.00	5,337.45	506.86	-348.40	10.62	6,075.93	5,642.00	506.87	-615.57	15.07	405.13	385.28	126.22	20.406
5,500.00	5,350.53	494.53	-349.31	10.60	6,063.60	5,642.00	494.54	-615.57	15.06	394.77	374.87	124.96	19.830
5,513.00	5,359.98	485.63	-349.99	10.59	6,054.70	5,642.00	485.64	-615.57	15.06	387.38	367.44	124.02	19.420
5,543.00	5,381.68	464.95	-351.26	10.56	6,034.02	5,642.00	464.96	-615.57	15.04	370.98	351.06	123.11	18.622
5,573.00	5,402.95	443.81	-352.09	10.52	6,012.88	5,642.00	443.82	-615.57	15.03	355.77	335.88	122.08	17.893
5,600.00	5,421.44	424.15	-352.46	10.49	5,989.04	5,641.91	419.99	-615.57	14.38	343.29	323.31	121.24	17.180
5,605.00	5,424.79	420.43	-352.47	10.49	5,982.79	5,641.75	413.73	-615.57	13.98	341.08	321.03	120.85	17.011
5,637.00	5,445.64	396.16	-352.23	10.45	5,945.05	5,639.22	376.09	-615.58	11.94	327.46	307.25	117.96	16.207
5,669.00	5,465.87	371.38	-351.62	10.42	5,911.41	5,634.67	342.77	-615.58	11.88	314.62	294.24	114.05	15.443
5,700.00	5,484.83	346.86	-351.02	10.39	5,882.07	5,628.95	313.99	-615.58	11.83	303.06	282.58	110.58	14.803
5,732.00	5,503.39	320.80	-350.50	10.36	5,854.17	5,622.02	286.97	-615.58	11.78	292.38	271.80	107.09	14.207
5,764.00	5,521.35	294.32	-349.90	10.33	5,828.85	5,614.49	262.79	-615.58	11.75	283.29	262.59	103.41	13.685
5,795.00	5,538.21	268.31	-349.46	10.31	5,806.45	5,606.85	241.74	-615.58	11.72	276.11	255.32	99.66	13.284
5,800.00	5,540.84	264.06	-349.43	10.30	5,802.97	5,605.58	238.50	-615.58	11.71	275.11	254.31	99.14	13.229
5,827.00	5,554.39	240.71	-349.35	10.29	5,784.52	5,598.50	221.47	-615.58	11.69	270.55	249.70	96.29	12.978
5,858.00	5,568.43	213.08	-349.71	10.27	5,763.86	5,589.87	202.70	-615.58	11.66	266.94	246.05	92.63	12.779
5,890.00	5,581.05	183.69	-350.47	10.25	5,742.94	5,580.37	184.07	-615.58	11.64	265.12	244.20	89.33	12.675
5,900.00	5,584.66	174.37	-350.72	10.25	5,736.53	5,577.31	178.43	-615.59	11.63	265.00	244.07	88.27	12.665
5,900.57	5,584.86	173.83	-350.74	10.25	5,736.17	5,577.13	178.11	-615.59	11.63	265.00	244.07	88.21	12.664
5,921.00	5,592.06	154.72	-351.27	10.23	5,723.51	5,570.88	167.11	-615.59	11.61	265.46	244.53	86.08	12.682
5,953.00	5,602.81	124.59	-352.04	10.21	5,704.70	5,561.10	151.04	-615.59	11.59	268.14	247.20	82.90	12.811
5,984.00	5,612.02	95.00	-352.61	10.19	5,687.11	5,551.43	136.34	-615.59	11.57	273.02	252.10	79.62	13.055
6,000.00	5,616.27	79.58	-352.87	10.18	5,678.22	5,546.36	129.04	-615.59	11.56	276.32	255.43	78.04	13.224
6,016.00	5,620.39	64.12	-353.19	10.17	5,669.60	5,541.33	122.05	-615.59	11.55	280.10	259.23	76.50	13.418
6,047.00	5,627.67	33.99	-353.66	10.20	5,650.00	5,529.45	106.46	-615.59	11.53	288.97	268.16	72.89	13.888
6,079.00	5,633.60	2.55	-353.73	10.28	5,636.90	5,521.19	96.29	-615.59	11.51	299.99	279.24	69.78	14.461
6,100.00	5,636.74	-18.21	-353.61	10.33	5,626.27	5,514.30	88.20	-615.59	11.50	308.13	287.43	67.98	14.882
6,112.00	5,638.42	-30.09	-353.51	10.37	5,620.36	5,510.39	83.75	-615.59	11.49	313.11	292.43	66.97	15.142
6,200.00	5,647.45	-117.61	-352.98	13.37	5,579.57	5,482.13	54.36	-615.59	11.44	354.78	334.40	59.72	17.405
6,221.00	5,648.72	-138.57	-352.96	14.15	5,570.42	5,475.48	48.08	-615.59	11.43	365.82	345.52	58.13	18.016
6,300.00	5,653.50	-217.42	-352.57	14.20	5,539.24	5,452.01	27.57	-615.59	11.39	412.07	391.92	54.79	20.452
6,315.00	5,654.56	-232.38	-352.42	14.21	5,533.92	5,447.88	24.21	-615.59	11.38	421.68	401.56	54.24	20.956
6,400.00	5,659.08	-317.25	-351.76	14.27	5,500.00	5,420.79	3.80	-615.59	11.34	479.03	459.23	49.13	24.194
6,410.00	5,659.40	-327.25	-351.72	14.27	5,500.00	5,420.79	3.80	-615.59	11.34	485.96	466.16	48.97	24.548
6,500.00	5,660.22	-417.24	-352.30	14.34	5,475.93	5,400.79	-9.58	-615.59	11.31	550.28	530.66	45.62	28.040

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-2209A - Plan C - Rev C0

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft . Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
6,504.00	5,660.17	-421.24	-352.36	14.34	5,474.80	5,399.83	-10.19	-615.59	11.30	553.19	533.58	45.48	28.199
6,599.00	5,659.29	-516.22	-353.62	14.41	5,450.00	5,378.57	-22.96	-615.60	11.27	625.09	605.50	43.27	31.895
6,600.00	5,659.29	-517.22	-353.63	14.41	5,450.00	5,378.57	-22.96	-615.60	11.27	625.88	606.27	43.30	31.927
6,693.00	5,659.15	-610.17	-356.52	14.48	5,429.39	5,360.46	-32.79	-615.60	11.24	699.79	679.94	44.15	35.249
6,700.00	5,659.17	-617.16	-356.89	14.49	5,427.98	5,359.20	-33.43	-615.60	11.24	705.44	685.56	44.20	35.497
6,788.00	5,659.67	-704.93	-363.18	14.56	5,400.00	5,333.99	-45.55	-615.60	11.20	777.54	757.49	44.04	38.775
6,800.00	5,659.76	-716.89	-364.20	14.58	5,400.00	5,333.99	-45.55	-615.60	11.20	787.42	767.37	43.57	39.288
6,883.00	5,659.59	-799.71	-369.49	14.66	5,400.00	5,333.99	-45.55	-615.60	11.20	857.52	837.61	39.98	43.067
6,900.00	5,659.40	-816.70	-370.16	14.68	5,400.00	5,333.99	-45.55	-615.60	11.20	872.24	852.37	39.12	43.893
6,977.00	5,658.30	-893.68	-371.02	14.77	5,381.54	5,317.02	-52.79	-615.60	11.17	939.89	920.44	33.38	48.330
7,000.00	5,657.93	-916.67	-370.73	14.80	5,378.31	5,314.02	-54.00	-615.60	11.17	960.44	940.95	33.23	49.276
7,072.00	5,656.94	-988.66	-369.82	14.90	5,368.84	5,305.19	-57.42	-615.60	11.15	1,025.35	1,005.72	32.80	52.228
7,100.00	5,656.59	-1,016.66	-369.60	14.94	5,350.00	5,287.45	-63.76	-615.60	11.13	1,051.09	1,031.45	32.47	53.499
7,166.00	5,655.60	-1,082.65	-370.14	15.07	5,350.00	5,287.45	-63.76	-615.60	11.13	1,110.82	1,090.72	34.57	55.263
7,200.00	5,655.12	-1,116.64	-370.53	15.15	5,350.00	5,287.45	-63.76	-615.60	11.13	1,141.84	1,121.79	33.23	56.954
7,261.00	5,654.73	-1,177.63	-369.85	15.33	5,350.00	5,287.45	-63.76	-615.60	11.13	1,198.33	1,178.43	30.46	60.223
7,300.00	5,654.63	-1,216.63	-369.39	15.47	5,350.00	5,287.45	-63.76	-615.60	11.13	1,234.72	1,214.26	33.82	60.329
7,355.00	5,654.34	-1,271.61	-370.61	15.70	5,350.00	5,287.45	-63.76	-615.60	11.13	1,285.90	1,264.62	38.22	60.436
7,400.00	5,654.03	-1,316.56	-372.60	15.92	5,350.00	5,287.45	-63.76	-615.60	11.13	1,327.76	1,306.23	38.74	61.657
7,450.00	5,653.67	-1,366.50	-375.06	16.19	5,330.84	5,269.18	-69.54	-615.60	11.10	1,373.97	1,352.37	37.97	63.614
7,500.00	5,653.42	-1,416.47	-376.66	16.49	5,326.92	5,265.42	-70.64	-615.60	11.09	1,420.88	1,399.82	33.14	67.469
7,545.00	5,653.41	-1,461.47	-376.41	16.76	5,323.61	5,262.24	-71.55	-615.60	11.09	1,463.59	1,443.15	28.02	71.592
7,600.00	5,653.58	-1,516.46	-375.76	17.12	5,319.81	5,258.57	-72.57	-615.60	11.08	1,516.05	1,494.85	31.63	71.534
7,639.00	5,653.80	-1,555.46	-376.06	17.37	5,300.00	5,239.37	-77.43	-615.60	11.05	1,553.61	1,532.08	32.99	72.144
7,700.00	5,654.16	-1,616.43	-378.07	17.79	5,300.00	5,239.37	-77.43	-615.60	11.05	1,611.52	1,588.93	37.70	71.339
7,734.00	5,654.33	-1,650.36	-380.10	18.03	5,300.00	5,239.37	-77.43	-615.60	11.05	1,643.71	1,620.54	40.13	70.942
7,800.00	5,654.58	-1,716.12	-385.69	18.51	5,300.00	5,239.37	-77.43	-615.60	11.05	1,706.04	1,681.89	43.78	70.643
7,828.00	5,654.67	-1,743.96	-388.68	18.71	5,300.00	5,239.37	-77.43	-615.60	11.05	1,732.43	1,707.87	45.23	70.545
7,900.00	5,655.24	-1,815.84	-391.45	19.23	5,300.00	5,239.37	-77.43	-615.60	11.05	1,801.46	1,780.78	22.25	87.097
7,923.00	5,655.59	-1,838.79	-390.06	19.40	5,300.00	5,239.37	-77.43	-615.60	11.05	1,823.87	1,804.66	11.14	94.946
8,000.00	5,656.61	-1,915.59	-384.67	19.98	5,300.00	5,239.37	-77.43	-615.60	11.05	1,899.02	1,878.73	17.80	93.610
8,018.00	5,656.78	-1,933.57	-383.73	20.11	5,300.00	5,239.37	-77.43	-615.60	11.05	1,916.57	1,896.00	19.27	93.157
8,100.00	5,657.14	-2,015.50	-380.45	20.76	5,300.00	5,239.37	-77.43	-615.60	11.05	1,996.48	1,975.01	22.83	92.976
8,113.00	5,657.14	-2,028.49	-380.07	20.86	5,300.00	5,239.37	-77.43	-615.60	11.05	2,009.14	1,987.52	23.37	92.924
8,200.00	5,654.81	-2,115.43	-378.10	21.56	5,300.00	5,239.37	-77.43	-615.60	11.05	2,093.43	2,071.92	21.09	97.300
8,205.00	5,654.54	-2,120.42	-378.01	21.60	5,300.00	5,239.37	-77.43	-615.60	11.05	2,098.25	2,076.73	20.99	97.528
8,244.17	5,653.36	-2,159.56	-377.00	21.82	5,300.00	5,239.37	-77.43	-615.60	11.05	2,136.26	2,114.58	21.40	98.566
8,300.00	5,653.11	-2,215.35	-375.05	21.97	5,300.00	5,239.37	-77.43	-615.60	11.05	2,190.84	2,169.13	21.40	100.916
8,389.17	5,652.72	-2,304.47	-371.94	22.24	5,300.00	5,239.37	-77.43	-615.60	11.05	2,278.15	2,256.37	21.40	104.605
8,400.00	5,652.68	-2,315.29	-371.58	22.27	5,300.00	5,239.37	-77.43	-615.60	11.05	2,288.76	2,266.75	22.46	104.018
8,439.76	5,652.67	-2,355.04	-370.59	22.40	5,278.95	5,218.78	-81.79	-615.60	11.02	2,327.22	2,304.61	25.31	102.921
8,500.00	5,652.79	-2,415.27	-369.47	22.60	5,276.94	5,216.81	-82.16	-615.60	11.02	2,386.22	2,363.56	25.21	105.315
8,600.00	5,652.99	-2,515.25	-367.63	22.97	5,273.78	5,213.70	-82.74	-615.60	11.01	2,484.27	2,461.52	25.06	109.190
8,700.00	5,653.20	-2,615.23	-365.79	23.38	5,270.82	5,210.78	-83.25	-615.60	11.01	2,582.45	2,559.59	24.91	112.943
8,800.00	5,653.40	-2,715.22	-363.94	23.82	5,250.00	5,190.21	-86.43	-615.60	10.98	2,681.12	2,658.35	23.93	117.755
8,900.00	5,653.60	-2,815.20	-362.10	24.29	5,250.00	5,190.21	-86.43	-615.60	10.98	2,779.42	2,756.48	23.93	121.122
9,000.00	5,653.81	-2,915.18	-360.25	24.79	5,250.00	5,190.21	-86.43	-615.60	10.98	2,877.84	2,854.70	23.93	124.355
9,100.00	5,654.01	-3,015.16	-358.41	25.32	5,250.00	5,190.21	-86.43	-615.60	10.98	2,976.37	2,953.02	23.93	127.455
9,200.00	5,654.22	-3,115.15	-356.56	25.88	5,250.00	5,190.21	-86.43	-615.60	10.98	3,074.99	3,051.41	23.93	130.421
9,300.00	5,654.42	-3,215.13	-354.72	26.46	5,250.00	5,190.21	-86.43	-615.60	10.98	3,173.70	3,149.88	23.93	133.254
9,400.00	5,654.62	-3,315.11	-352.87	27.06	5,250.00	5,190.21	-86.43	-615.60	10.98	3,272.48	3,248.41	23.93	135.959
9,500.00	5,654.83	-3,415.10	-351.03	27.69	5,250.00	5,190.21	-86.43	-615.60	10.98	3,371.34	3,347.00	23.93	138.537

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-2209A - Plan C - Rev C0

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
9,584.92	5,655.00	-3,500.00	-349.46	28.23	5,250.00	5,190.21	-86.43	-615.60	10.98	3,455.34	3,430.77	23.93	140.630
9,600.00	5,655.06	-3,515.08	-349.21	28.32	5,250.00	5,190.21	-86.43	-615.60	10.98	3,470.26	3,445.04	25.94	137.608
9,653.95	5,655.66	-3,569.03	-348.84	28.63	5,250.00	5,190.21	-86.43	-615.60	10.98	3,523.68	3,495.93	33.45	127.000
9,700.00	5,656.44	-3,615.07	-348.86	28.91	5,250.00	5,190.21	-86.43	-615.60	10.98	3,569.29	3,541.38	33.45	127.892
9,800.00	5,658.14	-3,715.05	-348.90	29.59	5,250.00	5,190.21	-86.43	-615.60	10.98	3,668.38	3,640.09	33.45	129.653
9,900.00	5,659.84	-3,815.04	-348.95	30.28	5,250.00	5,190.21	-86.43	-615.60	10.98	3,767.52	3,738.83	33.45	131.315
10,000.00	5,661.54	-3,915.02	-348.99	30.99	5,250.00	5,190.21	-86.43	-615.60	10.98	3,866.70	3,837.60	33.45	132.883
10,100.00	5,663.24	-4,015.01	-349.03	31.72	5,250.00	5,190.21	-86.43	-615.60	10.98	3,965.93	3,936.41	33.45	134.361
10,200.00	5,664.95	-4,114.99	-349.08	32.46	5,250.00	5,190.21	-86.43	-615.60	10.98	4,065.19	4,035.25	33.45	135.755
10,300.00	5,666.65	-4,214.98	-349.12	33.21	5,250.00	5,190.21	-86.43	-615.60	10.98	4,164.49	4,134.11	33.45	137.069
10,400.00	5,668.35	-4,314.97	-349.16	33.97	5,250.00	5,190.21	-86.43	-615.60	10.98	4,263.82	4,232.99	33.45	138.307
10,500.00	5,670.05	-4,414.95	-349.21	34.74	5,250.00	5,190.21	-86.43	-615.60	10.98	4,363.18	4,331.90	33.45	139.476
10,600.00	5,671.75	-4,514.94	-349.25	35.53	5,250.00	5,190.21	-86.43	-615.60	10.98	4,462.57	4,430.83	33.45	140.577
10,700.00	5,673.45	-4,614.92	-349.29	36.32	5,250.00	5,190.21	-86.43	-615.60	10.98	4,561.99	4,529.77	33.45	141.617
10,800.00	5,675.15	-4,714.91	-349.34	37.12	5,250.00	5,190.21	-86.43	-615.60	10.98	4,661.43	4,628.74	33.45	142.597
10,900.00	5,676.85	-4,814.89	-349.38	37.93	5,250.00	5,190.21	-86.43	-615.60	10.98	4,760.89	4,727.72	33.45	143.523
11,000.00	5,678.55	-4,914.88	-349.42	38.75	5,250.00	5,190.21	-86.43	-615.60	10.98	4,860.38	4,826.72	33.45	144.397
11,085.13	5,680.00	-5,000.00	-349.46	39.46	5,250.00	5,190.21	-86.43	-615.60	10.98	4,945.09	4,911.01	33.45	145.104
11,100.00	5,680.21	-5,014.86	-349.47	39.58	5,250.00	5,190.21	-86.43	-615.60	10.98	4,959.88	4,926.50	31.77	148.564
11,120.18	5,680.38	-5,035.04	-349.47	39.75	5,250.00	5,190.21	-86.43	-615.60	10.98	4,979.95	4,947.42	29.70	153.081
11,200.00	5,680.76	-5,114.86	-349.47	40.41	5,250.00	5,190.21	-86.43	-615.60	10.98	5,059.31	5,026.41	29.70	153.780
11,300.00	5,681.24	-5,214.86	-349.47	41.25	5,250.00	5,190.21	-86.43	-615.60	10.98	5,158.76	5,125.39	29.70	154.614
11,400.00	5,681.72	-5,314.86	-349.47	42.10	5,250.00	5,190.21	-86.43	-615.60	10.98	5,258.23	5,224.39	29.70	155.404
11,500.00	5,682.20	-5,414.86	-349.46	42.95	5,250.00	5,190.21	-86.43	-615.60	10.98	5,357.71	5,323.40	29.70	156.153
11,600.00	5,682.68	-5,514.86	-349.46	43.81	5,250.00	5,190.21	-86.43	-615.60	10.98	5,457.22	5,422.43	29.70	156.864
11,700.00	5,683.16	-5,614.86	-349.46	44.67	5,250.00	5,190.21	-86.43	-615.60	10.98	5,556.74	5,521.47	29.70	157.539
11,800.00	5,683.64	-5,714.86	-349.46	45.54	5,250.00	5,190.21	-86.43	-615.60	10.98	5,656.28	5,620.52	29.70	158.180
11,900.00	5,684.11	-5,814.85	-349.46	46.41	5,250.00	5,190.21	-86.43	-615.60	10.98	5,755.84	5,719.59	29.70	158.788
12,000.00	5,684.59	-5,914.85	-349.46	47.29	5,226.86	5,167.21	-88.98	-615.60	10.94	5,854.85	5,818.79	28.53	162.376
12,085.15	5,685.00	-6,000.00	-349.46	48.03	5,226.28	5,166.63	-89.04	-615.60	10.94	5,939.62	5,903.16	28.50	162.942
12,100.00	5,685.03	-6,014.85	-349.46	48.17	5,226.18	5,166.53	-89.04	-615.60	10.94	5,954.40	5,918.68	27.06	166.677
12,198.86	5,683.29	-6,113.69	-349.46	49.04	5,225.36	5,165.71	-89.12	-615.60	10.94	6,052.62	6,020.22	20.09	186.809
12,200.00	5,683.25	-6,114.83	-349.46	49.05	5,225.35	5,165.70	-89.12	-615.60	10.94	6,053.75	6,021.35	20.09	186.818
12,300.00	5,679.76	-6,214.77	-349.46	49.94	5,224.41	5,164.77	-89.20	-615.60	10.94	6,152.94	6,120.15	20.07	187.627
12,400.00	5,676.27	-6,314.71	-349.46	50.83	5,223.50	5,163.86	-89.27	-615.60	10.94	6,252.16	6,218.97	20.05	188.404
12,500.00	5,672.78	-6,414.65	-349.46	51.72	5,200.00	5,140.41	-90.67	-615.60	10.90	6,351.93	6,318.69	19.47	191.090
12,600.00	5,669.29	-6,514.59	-349.46	52.62	5,200.00	5,140.41	-90.67	-615.60	10.90	6,451.14	6,417.50	19.47	191.743
12,700.00	5,665.80	-6,614.53	-349.46	53.52	5,200.00	5,140.41	-90.67	-615.60	10.90	6,550.39	6,516.34	19.47	192.369
12,800.00	5,662.31	-6,714.47	-349.46	54.42	5,200.00	5,140.41	-90.67	-615.60	10.90	6,649.65	6,615.19	19.47	192.969
12,900.00	5,658.82	-6,814.41	-349.46	55.33	5,200.00	5,140.41	-90.67	-615.60	10.90	6,748.94	6,714.07	19.47	193.544
13,000.00	5,655.33	-6,914.34	-349.46	56.23	5,200.00	5,140.41	-90.67	-615.60	10.90	6,848.25	6,812.97	19.47	194.096
13,100.00	5,651.84	-7,014.28	-349.46	57.14	5,200.00	5,140.41	-90.67	-615.60	10.90	6,947.58	6,911.88	19.47	194.626
13,117.21	5,651.24	-7,031.48	-349.46	57.30	5,200.00	5,140.41	-90.67	-615.60	10.90	6,964.67	6,928.90	19.47	194.715

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W - Razor #27J-2213A - ST-1_Existing Well - ST-1_Existing Well_Customer Supplied Surveys

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
100.00	100.00	0.04	-0.03	3.33	83.66	83.66	93.64	1,286.28	5.00	1,289.72	1,280.43	123.00	138.779
177.00	177.00	0.14	-0.10	3.33	165.20	165.20	93.49	1,285.85	5.00	1,289.37	1,280.07	123.01	138.655
200.00	200.00	0.19	-0.13	3.34	189.76	189.75	93.44	1,285.66	5.01	1,289.21	1,279.91	100.70	138.565
268.00	268.00	0.65	-0.17	3.35	262.60	262.59	93.39	1,284.92	5.01	1,288.53	1,279.20	87.98	138.146
300.00	300.00	0.97	-0.19	3.36	294.39	294.38	93.41	1,284.54	5.02	1,288.14	1,278.80	90.22	137.895
359.00	358.99	1.58	-0.26	3.38	352.96	352.94	93.41	1,283.84	5.03	1,287.47	1,278.09	93.95	137.351
400.00	399.99	2.02	-0.35	3.39	393.65	393.64	93.40	1,283.38	5.04	1,287.05	1,277.65	101.27	136.920
451.00	450.99	2.56	-0.54	3.42	444.28	444.26	93.36	1,282.81	5.06	1,286.64	1,277.20	109.84	136.324
500.00	499.98	3.08	-0.76	3.44	492.92	492.89	93.30	1,282.28	5.07	1,286.28	1,276.80	107.83	135.696
544.00	543.98	3.57	-0.95	3.47	536.59	536.57	93.22	1,281.82	5.09	1,285.97	1,276.45	106.11	135.078
600.00	599.98	4.08	-1.19	3.50	592.18	592.15	93.11	1,281.24	5.11	1,285.59	1,276.01	118.90	134.256
635.00	634.98	4.28	-1.35	3.52	626.92	626.89	93.02	1,280.90	5.13	1,285.38	1,275.77	134.25	133.709
700.00	699.98	4.48	-1.60	3.56	691.45	691.41	92.83	1,280.27	5.16	1,284.98	1,275.29	143.47	132.642
727.00	726.98	4.52	-1.68	3.58	718.25	718.21	92.73	1,280.02	5.17	1,284.79	1,275.07	152.64	132.172
800.00	799.98	4.49	-1.93	3.64	789.37	789.33	92.58	1,279.40	5.21	1,284.40	1,274.58	-160.01	130.835
819.00	818.98	4.44	-2.02	3.66	807.87	807.84	92.57	1,279.26	5.22	1,284.34	1,274.50	-155.03	130.477
900.00	899.98	4.28	-2.30	3.73	886.75	886.71	92.68	1,278.71	5.27	1,284.08	1,274.12	-155.58	128.858
910.00	910.97	4.27	-2.32	3.74	897.47	897.43	92.72	1,278.64	5.28	1,284.04	1,274.05	-155.82	128.630
993.00	992.97	4.89	-2.69	3.82	986.32	986.28	93.34	1,277.86	5.34	1,283.69	1,273.56	111.31	126.768
1,000.00	999.97	5.00	-2.74	3.83	993.97	993.92	93.42	1,277.77	5.35	1,283.65	1,273.51	109.04	126.601
1,087.00	1,086.93	7.57	-3.42	3.93	1,082.45	1,082.38	95.10	1,276.57	5.42	1,283.09	1,272.79	97.31	124.510
1,100.00	1,099.91	8.13	-3.53	3.94	1,094.91	1,094.84	95.45	1,276.39	5.43	1,282.99	1,272.66	95.55	124.194
1,176.00	1,175.78	12.54	-3.97	4.03	1,166.70	1,166.57	97.98	1,275.44	5.49	1,282.31	1,271.83	89.45	122.324
1,200.00	1,199.72	14.29	-4.09	4.06	1,189.77	1,189.62	98.98	1,275.17	5.51	1,282.11	1,271.58	91.13	121.775
1,264.66	1,264.16	19.57	-4.72	4.15	1,252.83	1,252.61	101.76	1,274.49	5.54	1,281.88	1,271.24	94.76	120.431
1,268.00	1,267.49	19.86	-4.76	4.15	1,256.09	1,255.87	101.90	1,274.46	5.54	1,281.88	1,271.23	94.92	120.363
1,300.00	1,299.35	22.82	-5.26	4.19	1,287.28	1,287.02	103.29	1,274.15	5.56	1,281.97	1,271.26	96.84	119.703
1,360.00	1,359.01	29.01	-6.57	4.28	1,345.73	1,345.41	105.92	1,273.62	5.59	1,282.52	1,271.69	99.75	118.496
1,400.00	1,398.73	33.60	-7.76	4.33	1,384.66	1,384.30	107.69	1,273.30	5.61	1,283.22	1,272.32	102.44	117.712
1,451.00	1,449.28	40.00	-9.75	4.41	1,434.25	1,433.84	109.96	1,272.94	5.64	1,284.61	1,273.61	105.29	116.757
1,500.00	1,497.77	46.65	-12.21	4.48	1,481.83	1,481.37	112.16	1,272.64	5.67	1,286.53	1,275.43	108.93	115.886
1,542.00	1,539.25	52.69	-14.82	4.55	1,522.55	1,522.05	114.06	1,272.41	5.69	1,288.70	1,277.71	111.62	117.266
1,600.00	1,596.52	60.92	-18.80	4.60	1,578.78	1,578.21	116.71	1,272.15	5.73	1,292.16	1,281.19	114.36	117.890
1,636.00	1,632.11	65.72	-21.34	4.63	1,615.69	1,615.08	118.45	1,271.99	5.74	1,294.41	1,283.41	116.20	117.659
1,700.00	1,695.37	74.10	-26.29	4.64	1,682.31	1,681.62	121.52	1,271.59	5.75	1,298.76	1,287.73	119.92	117.820
1,728.00	1,723.02	77.79	-28.69	4.65	1,712.01	1,711.30	122.86	1,271.35	5.76	1,300.85	1,289.82	121.45	117.896
1,800.00	1,793.94	87.89	-35.93	4.67	1,782.40	1,781.62	126.00	1,270.66	5.79	1,307.17	1,296.11	125.24	118.157
1,819.00	1,812.59	90.74	-38.13	4.68	1,798.00	1,797.19	126.76	1,270.55	5.79	1,309.19	1,298.12	126.05	118.262
1,900.00	1,891.68	105.13	-48.01	4.72	1,868.94	1,868.02	130.68	1,270.50	5.82	1,318.76	1,307.63	119.64	118.442
1,911.00	1,902.35	107.40	-49.38	4.73	1,881.67	1,880.73	131.41	1,270.50	5.83	1,320.10	1,308.96	118.99	118.449
2,000.00	1,988.11	127.83	-61.59	4.79	1,977.93	1,976.84	136.75	1,269.98	5.88	1,331.63	1,320.40	119.54	118.557
2,002.00	1,990.02	128.33	-61.89	4.80	1,979.85	1,978.77	136.85	1,269.97	5.88	1,331.91	1,320.68	119.55	118.562
2,094.00	2,078.12	150.97	-75.65	4.89	2,073.75	2,072.50	142.35	1,269.20	5.94	1,344.96	1,333.60	121.14	118.376
2,100.00	2,083.87	152.42	-76.55	4.89	2,080.48	2,079.21	142.74	1,269.12	5.94	1,345.80	1,334.43	121.26	118.347
2,185.00	2,165.55	172.32	-89.10	4.99	2,161.49	2,160.08	147.46	1,268.01	6.00	1,357.42	1,345.91	122.97	117.957
2,200.00	2,180.01	175.69	-91.28	5.00	2,173.29	2,171.85	148.22	1,267.90	6.01	1,359.51	1,347.98	123.36	117.886
2,277.00	2,254.41	192.13	-102.30	5.10	2,237.40	2,235.79	152.92	1,267.73	6.06	1,370.60	1,358.93	125.47	117.501
2,300.00	2,276.71	196.79	-105.54	5.13	2,259.98	2,258.30	154.63	1,267.74	6.08	1,373.92	1,362.21	125.84	117.327
2,368.00	2,342.75	210.01	-114.87	5.22	2,326.62	2,324.76	159.51	1,267.76	6.14	1,383.56	1,371.72	126.94	116.783
2,400.00	2,373.80	216.29	-119.37	5.27	2,357.68	2,355.75	161.71	1,267.78	6.16	1,388.23	1,376.33	127.03	116.626
2,459.00	2,430.64	229.13	-128.60	5.36	2,415.18	2,413.11	165.67	1,267.83	6.22	1,397.87	1,385.86	127.19	116.436
2,500.00	2,469.97	238.48	-135.45	5.43	2,456.62	2,454.46	168.48	1,267.83	6.26	1,405.03	1,392.93	128.48	116.127

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W - Razor #27J-2213A - ST-1_Existing Well - ST-1_Existing Well_Customer Supplied Surveys

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
2,551.00	2,518.97	249.71	-144.02	5.52	2,507.36	2,505.08	171.91	1,267.77	6.31	1,413.95	1,401.74	130.12	115.744
2,600.00	2,566.13	260.20	-152.23	5.61	2,553.90	2,551.52	174.98	1,267.73	6.36	1,422.52	1,410.19	130.49	115.302
2,642.00	2,606.60	269.03	-159.16	5.68	2,593.96	2,591.50	177.55	1,267.71	6.40	1,429.81	1,417.37	130.81	114.915
2,700.00	2,662.37	281.98	-168.45	5.79	2,649.94	2,647.37	180.99	1,267.71	6.46	1,439.72	1,427.12	126.31	114.237
2,733.00	2,693.94	290.09	-173.55	5.86	2,681.82	2,679.19	182.87	1,267.72	6.50	1,445.26	1,432.57	124.07	113.850
2,800.00	2,758.00	306.84	-183.78	6.00	2,748.43	2,745.69	186.75	1,267.68	6.57	1,456.45	1,443.57	125.49	113.080
2,825.00	2,781.94	312.96	-187.61	6.05	2,773.09	2,770.31	188.18	1,267.64	6.60	1,460.62	1,447.67	126.02	112.796
2,900.00	2,854.15	330.61	-197.49	6.21	2,844.03	2,841.13	192.22	1,267.59	6.69	1,471.62	1,458.41	120.49	111.414
2,917.00	2,870.61	334.46	-199.29	6.24	2,860.26	2,857.34	193.12	1,267.58	6.71	1,473.68	1,460.42	118.99	111.088
3,000.00	2,951.33	352.00	-207.39	6.41	2,944.60	2,941.58	197.31	1,267.46	6.81	1,482.98	1,469.47	120.90	109.746
3,008.00	2,959.14	353.58	-208.14	6.43	2,952.88	2,949.85	197.67	1,267.44	6.82	1,483.84	1,470.30	121.10	109.614
3,100.00	3,049.28	369.97	-216.48	6.60	3,050.39	3,047.29	201.49	1,266.81	6.94	1,492.95	1,479.14	124.73	108.085
3,192.00	3,139.53	386.26	-223.69	6.78	3,138.10	3,134.94	204.53	1,266.11	7.06	1,500.94	1,486.85	116.27	106.542
3,200.00	3,147.36	387.81	-224.25	6.80	3,145.22	3,142.05	204.79	1,266.07	7.07	1,501.59	1,487.48	116.34	106.412
3,283.00	3,228.60	403.78	-230.04	6.96	3,219.34	3,216.07	208.52	1,265.95	7.16	1,508.70	1,494.34	117.11	105.102
3,300.00	3,245.24	407.04	-231.22	7.00	3,238.41	3,235.11	209.74	1,265.99	7.19	1,510.20	1,495.78	117.08	104.786
3,375.00	3,318.68	421.38	-236.36	7.15	3,328.82	3,325.34	215.38	1,265.56	7.32	1,516.24	1,501.56	116.96	103.304
3,400.00	3,343.16	426.15	-238.07	7.20	3,356.61	3,353.08	217.09	1,265.26	7.36	1,518.11	1,503.35	117.56	102.835
3,467.00	3,408.76	438.91	-242.86	7.34	3,428.74	3,425.06	221.48	1,264.21	7.47	1,523.13	1,508.15	119.15	101.621
3,500.00	3,441.06	445.20	-245.33	7.41	3,461.68	3,457.94	223.49	1,263.69	7.52	1,525.69	1,510.59	119.75	101.058
3,558.00	3,497.80	456.33	-249.84	7.53	3,500.00	3,496.18	225.85	1,263.07	7.58	1,530.49	1,515.23	120.69	100.284
3,600.00	3,538.88	464.38	-253.24	7.62	3,541.66	3,537.77	228.33	1,262.64	7.65	1,534.28	1,518.88	121.72	99.617
3,649.00	3,586.82	473.66	-257.33	7.73	3,574.72	3,570.77	230.20	1,262.67	7.70	1,539.38	1,523.84	122.86	99.032
3,700.00	3,636.73	483.21	-261.68	7.85	3,615.43	3,611.42	232.34	1,263.06	7.76	1,545.25	1,529.54	123.43	98.388
3,741.00	3,676.87	490.81	-265.20	7.94	3,652.73	3,648.68	234.12	1,263.49	7.82	1,550.11	1,534.27	123.91	97.847
3,800.00	3,734.66	501.48	-270.45	8.07	3,702.27	3,698.17	236.20	1,264.17	7.89	1,557.45	1,541.43	126.53	97.175
3,832.00	3,766.02	507.10	-273.43	8.15	3,726.25	3,722.12	237.17	1,264.64	7.93	1,561.75	1,545.62	127.98	96.861
3,900.00	3,832.67	518.90	-279.93	8.30	3,778.19	3,774.00	239.24	1,266.05	8.01	1,571.52	1,555.18	128.35	96.211
3,924.00	3,856.19	523.08	-282.23	8.35	3,802.38	3,798.16	240.16	1,266.80	8.04	1,575.09	1,558.67	128.51	95.945
4,000.00	3,930.33	538.42	-288.78	8.53	3,899.35	3,895.04	243.49	1,269.43	8.19	1,585.94	1,569.20	118.21	94.753
4,015.00	3,944.87	541.94	-289.89	8.57	3,938.95	3,934.61	244.97	1,269.76	8.26	1,587.70	1,570.87	116.78	94.353
4,100.00	4,026.80	563.67	-296.14	8.78	4,035.44	4,031.03	248.67	1,269.08	8.41	1,596.80	1,579.65	116.17	93.077
4,106.00	4,032.55	565.30	-296.59	8.80	4,041.38	4,036.96	248.87	1,269.03	8.42	1,597.48	1,580.30	116.13	92.997
4,197.00	4,120.02	589.46	-303.49	9.04	4,119.41	4,114.96	251.16	1,268.44	8.54	1,608.01	1,590.50	117.87	91.864
4,200.00	4,122.91	590.23	-303.72	9.05	4,121.94	4,117.49	251.22	1,268.43	8.55	1,608.36	1,590.85	117.88	91.827
4,289.00	4,208.82	612.55	-310.21	9.29	4,205.50	4,201.01	253.58	1,268.25	8.68	1,618.82	1,600.97	118.09	90.689
4,300.00	4,219.46	615.22	-310.98	9.32	4,216.23	4,211.74	253.97	1,268.25	8.70	1,620.08	1,602.19	118.40	90.553
4,380.00	4,297.13	633.52	-316.60	9.53	4,292.28	4,287.73	256.91	1,268.32	8.82	1,629.09	1,610.90	120.76	89.567
4,400.00	4,316.63	637.77	-317.98	9.57	4,595.00	4,587.01	283.53	1,244.41	9.10	1,628.33	1,609.92	122.21	88.460
4,473.00	4,388.08	651.93	-322.68	9.75	4,639.43	4,630.45	290.22	1,237.89	9.15	1,623.44	1,604.82	122.72	87.203
4,500.00	4,414.61	656.70	-324.27	9.82	4,651.83	4,642.62	291.96	1,236.30	9.16	1,621.85	1,603.16	122.31	86.791
4,563.00	4,476.63	667.24	-327.62	9.96	4,687.00	4,677.25	296.62	1,232.32	9.20	1,618.61	1,599.76	121.23	85.858
4,600.00	4,513.16	672.88	-329.35	10.04	4,702.95	4,693.00	298.61	1,230.73	9.21	1,616.88	1,597.93	121.18	85.344
4,655.00	4,567.64	680.10	-331.57	10.16	4,740.35	4,729.97	303.13	1,227.27	9.25	1,614.22	1,595.12	121.10	84.553
4,700.00	4,612.32	685.20	-333.13	10.24	6,184.00	5,636.39	1,071.23	815.74	23.00	1,600.34	1,567.12	94.05	48.172
4,747.00	4,659.05	690.02	-334.61	10.34	6,184.00	5,636.39	1,071.23	815.74	23.00	1,570.13	1,536.77	93.52	47.058
4,800.00	4,711.86	694.17	-336.13	10.43	6,184.00	5,636.39	1,071.23	815.74	23.00	1,537.21	1,503.61	99.80	45.745
4,839.00	4,750.80	695.95	-337.19	10.50	6,184.00	5,636.39	1,071.23	815.74	23.00	1,513.93	1,480.17	113.14	44.843
4,900.00	4,811.78	696.85	-338.14	10.59	6,184.00	5,636.39	1,071.23	815.74	23.00	1,478.74	1,444.78	-171.66	43.551
4,931.00	4,842.78	696.50	-338.13	10.63	6,184.00	5,636.39	1,071.23	815.74	23.00	1,461.31	1,427.27	-92.28	42.924
5,000.00	4,911.75	694.54	-337.59	10.71	6,184.00	5,636.39	1,071.23	815.74	23.00	1,424.09	1,389.93	-94.59	41.685

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W - Razor #27J-2213A - ST-1_Existing Well - ST-1_Existing Well_Customer Supplied Surveys

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
5,023.00	4,934.73	693.63	-337.35	10.74	6,184.00	5,636.39	1,071.23	815.74	23.00	1,412.24	1,378.04	-95.05	41.292
5,100.00	5,011.59	689.06	-336.40	10.83	6,184.00	5,636.39	1,071.23	815.74	23.00	1,374.97	1,340.64	-100.60	40.050
5,115.00	5,026.54	687.87	-336.20	10.84	6,184.00	5,636.39	1,071.23	815.74	23.00	1,368.17	1,333.82	-101.24	39.825
5,146.00	5,057.22	683.54	-336.20	10.87	6,184.00	5,636.39	1,071.23	815.74	23.00	1,355.54	1,321.19	-117.24	39.470
5,176.00	5,086.39	676.58	-336.48	10.88	6,176.09	5,636.56	1,063.71	818.16	22.86	1,345.10	1,310.94	-115.48	39.371
5,200.00	5,109.28	669.39	-336.66	10.88	6,172.21	5,636.65	1,060.02	819.36	22.79	1,337.78	1,303.81	-116.97	39.376
5,206.00	5,114.93	667.36	-336.72	10.88	6,171.12	5,636.67	1,058.98	819.69	22.77	1,336.13	1,302.21	-117.27	39.393
5,238.00	5,144.15	654.39	-337.45	10.88	6,164.31	5,636.83	1,052.52	821.83	22.65	1,329.02	1,295.67	-120.61	39.846
5,268.00	5,170.13	639.46	-338.68	10.86	6,152.00	5,637.15	1,040.85	825.75	22.43	1,324.83	1,292.05	-121.38	40.415
5,299.00	5,195.92	622.32	-340.13	10.83	6,152.00	5,637.15	1,040.85	825.75	22.43	1,322.16	1,289.58	-121.26	40.576
5,300.00	5,196.73	621.75	-340.18	10.83	6,152.00	5,637.15	1,040.85	825.75	22.43	1,322.10	1,289.52	-121.24	40.581
5,329.00	5,220.11	604.64	-341.48	10.80	6,140.86	5,637.45	1,030.33	829.40	22.23	1,320.72	1,288.47	-120.45	40.957
5,359.00	5,243.93	586.43	-342.58	10.76	6,133.04	5,637.67	1,022.97	832.02	22.08	1,319.95	1,287.79	-119.28	41.044
5,381.28	5,261.51	572.75	-343.30	10.74	6,121.00	5,637.99	1,011.67	836.19	21.86	1,319.78	1,287.91	-119.06	41.413
5,389.00	5,267.55	567.96	-343.56	10.73	6,121.00	5,637.99	1,011.67	836.19	21.86	1,319.82	1,287.98	-119.13	41.456
5,400.00	5,276.11	561.07	-344.00	10.72	6,121.00	5,637.99	1,011.67	836.19	21.86	1,320.03	1,288.30	-119.69	41.603
5,420.00	5,291.47	548.31	-345.03	10.70	6,121.00	5,637.99	1,011.67	836.19	21.86	1,321.00	1,289.47	-120.64	41.897
5,451.00	5,314.73	527.89	-346.79	10.67	6,107.09	5,638.25	998.69	841.17	21.60	1,323.48	1,292.30	-119.56	42.447
5,482.00	5,337.45	506.86	-348.40	10.63	6,097.79	5,638.31	990.06	844.61	21.42	1,326.78	1,295.81	-118.75	42.831
5,500.00	5,350.53	494.53	-349.31	10.61	6,089.00	5,638.28	981.92	847.95	21.25	1,329.02	1,298.23	-118.59	43.154
5,513.00	5,359.98	485.63	-349.99	10.60	6,089.00	5,638.28	981.92	847.95	21.25	1,330.77	1,300.00	-118.70	43.246
5,543.00	5,381.68	464.95	-351.26	10.57	6,089.00	5,638.28	981.92	847.95	21.25	1,335.08	1,304.21	-117.19	43.251
5,573.00	5,402.95	443.81	-352.09	10.53	6,076.97	5,638.03	970.88	852.70	21.02	1,339.74	1,309.14	-116.02	43.778
5,600.00	5,421.44	424.15	-352.46	10.51	6,071.64	5,637.82	966.02	854.90	20.92	1,344.51	1,313.97	-114.30	44.032
5,605.00	5,424.79	420.43	-352.47	10.50	6,070.65	5,637.78	965.12	855.31	20.90	1,345.43	1,314.91	-114.00	44.080
5,637.00	5,445.64	396.16	-352.23	10.46	6,057.00	5,636.94	952.83	861.19	20.63	1,351.79	1,321.52	-112.32	44.657
5,669.00	5,465.87	371.38	-351.62	10.43	6,057.00	5,636.94	952.83	861.19	20.63	1,358.64	1,328.36	-111.83	44.873
5,700.00	5,484.83	346.86	-351.02	10.40	6,029.65	5,634.12	928.46	873.26	20.10	1,366.06	1,336.40	-110.73	46.054
5,732.00	5,503.39	320.80	-350.50	10.37	6,027.00	5,633.76	926.11	874.43	20.05	1,374.69	1,345.15	-110.13	46.536
5,764.00	5,521.35	294.32	-349.90	10.34	6,011.21	5,631.43	912.18	881.51	19.74	1,383.95	1,354.67	-109.27	47.274
5,795.00	5,538.21	268.31	-349.46	10.32	5,996.00	5,628.84	898.96	888.56	19.45	1,393.88	1,364.99	-108.80	48.254
5,800.00	5,540.84	264.06	-349.43	10.32	5,996.00	5,628.84	898.96	888.56	19.45	1,395.57	1,366.70	-108.68	48.349
5,827.00	5,554.39	240.71	-349.35	10.30	5,993.20	5,628.32	896.55	889.88	19.39	1,405.29	1,376.58	-107.84	48.954
5,858.00	5,568.43	213.08	-349.71	10.28	5,966.00	5,622.45	873.21	902.56	18.88	1,417.60	1,389.52	-106.31	50.499
5,890.00	5,581.05	183.69	-350.47	10.27	5,966.00	5,622.45	873.21	902.56	18.88	1,431.58	1,403.57	-104.58	51.115
5,900.00	5,584.66	174.37	-350.72	10.26	5,954.33	5,619.55	863.31	908.01	18.66	1,436.03	1,408.19	-104.10	51.595
5,921.00	5,592.06	154.72	-351.27	10.24	5,949.23	5,618.26	859.02	910.43	18.57	1,445.73	1,417.98	-103.62	52.088
5,953.00	5,602.81	124.59	-352.04	10.22	5,935.00	5,614.54	847.14	917.35	18.31	1,460.99	1,433.41	-102.38	52.972
5,984.00	5,612.02	95.00	-352.61	10.20	5,935.00	5,614.54	847.14	917.35	18.31	1,476.16	1,448.53	-100.38	53.420
6,000.00	5,616.27	79.58	-352.87	10.19	5,935.00	5,614.54	847.14	917.35	18.31	1,484.24	1,456.62	-100.20	53.728
6,016.00	5,620.39	64.12	-353.19	10.19	5,935.00	5,614.54	847.14	917.35	18.31	1,492.52	1,464.90	-100.00	54.042
6,047.00	5,627.67	33.99	-353.66	10.22	5,917.78	5,609.82	833.01	925.97	18.00	1,508.61	1,481.13	-97.94	54.906
6,079.00	5,633.60	2.55	-353.73	10.29	5,905.00	5,606.15	822.68	932.55	17.76	1,525.51	1,498.12	-95.33	55.699
6,100.00	5,636.74	-18.21	-353.61	10.35	5,905.00	5,606.15	822.68	932.55	17.76	1,536.68	1,509.24	-94.85	55.995
6,112.00	5,638.42	-30.09	-353.51	10.38	5,905.00	5,606.15	822.68	932.55	17.76	1,543.14	1,515.66	-94.57	56.166
6,200.00	5,647.45	-117.61	-352.98	13.38	5,874.70	5,597.04	798.69	948.66	17.21	1,592.08	1,564.99	-91.46	58.767
6,221.00	5,648.72	-138.57	-352.96	14.16	5,855.01	5,590.79	783.34	959.30	16.86	1,604.15	1,577.33	-90.49	59.821
6,300.00	5,653.50	-217.42	-352.57	14.21	5,788.78	5,567.01	732.37	994.22	15.70	1,649.31	1,623.31	-89.97	63.436
6,315.00	5,654.56	-232.38	-352.42	14.22	5,777.92	5,562.72	724.12	999.83	15.52	1,657.85	1,631.98	-89.89	64.069
6,400.00	5,659.08	-317.25	-351.76	14.27	5,726.48	5,541.60	685.39	1,026.28	14.73	1,706.93	1,681.60	-87.42	67.407
6,410.00	5,659.40	-327.25	-351.72	14.28	5,716.11	5,537.33	677.60	1,031.64	14.57	1,712.79	1,687.59	-87.05	67.959
6,500.00	5,660.22	-417.24	-352.30	14.34	5,482.53	5,416.82	505.90	1,130.09	11.55	1,760.43	1,737.76	-80.97	77.669

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W - Razor #27J-2213A - ST-1_Existing Well - ST-1_Existing Well_Customer Supplied Surveys

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
6,504.00	5,660.17	-421.24	-352.36	14.35	5,479.00	5,414.34	503.62	1,131.14	11.52	1,762.58	1,739.94	-80.81	77.854
6,599.00	5,659.29	-516.22	-353.62	14.42	5,458.12	5,399.33	490.50	1,137.32	11.33	1,814.80	1,792.02	-80.63	79.651
6,600.00	5,659.29	-517.22	-353.63	14.42	5,448.00	5,391.84	484.38	1,140.32	11.25	1,815.44	1,792.74	-80.37	79.978
6,693.00	5,659.15	-610.17	-356.52	14.49	5,435.36	5,382.32	476.94	1,144.03	11.15	1,870.53	1,847.59	-80.04	81.541
6,700.00	5,659.17	-617.16	-356.89	14.50	5,433.48	5,380.89	475.84	1,144.58	11.13	1,874.90	1,851.95	-79.99	81.681
6,788.00	5,659.67	-704.93	-363.18	14.57	5,394.48	5,350.53	453.99	1,155.56	10.84	1,932.01	1,908.99	-78.89	83.898
6,800.00	5,659.76	-716.89	-364.20	14.58	5,388.00	5,345.36	450.46	1,157.26	10.80	1,940.01	1,916.99	-78.64	84.255
6,883.00	5,659.59	-799.71	-369.49	14.67	5,356.96	5,320.29	433.97	1,165.17	10.59	1,994.61	1,971.49	-77.34	86.274
6,900.00	5,659.40	-816.70	-370.16	14.69	5,345.29	5,310.72	427.93	1,168.03	10.52	2,005.62	1,982.50	-77.08	86.758
6,977.00	5,658.30	-893.68	-371.02	14.78	5,308.71	5,280.20	409.57	1,176.34	10.31	2,054.33	2,031.11	-76.38	88.455
7,000.00	5,657.93	-916.67	-370.73	14.81	5,300.72	5,273.38	405.75	1,177.99	10.27	2,068.70	2,045.40	-76.22	88.801
7,072.00	5,656.94	-988.66	-369.82	14.91	5,269.68	5,246.29	391.69	1,183.67	10.12	2,114.36	2,090.87	-75.53	90.014
7,100.00	5,656.59	-1,016.66	-369.60	14.95	5,266.00	5,243.02	390.11	1,184.25	10.10	2,132.50	2,108.89	-75.22	90.303
7,166.00	5,655.60	-1,082.65	-370.14	15.08	5,251.29	5,229.84	383.98	1,186.49	10.04	2,176.68	2,152.81	-74.28	91.179
7,200.00	5,655.12	-1,116.64	-370.53	15.16	5,245.82	5,224.90	381.79	1,187.29	10.02	2,199.90	2,175.82	-74.65	91.372
7,261.00	5,654.73	-1,177.63	-369.85	15.34	5,236.00	5,215.97	377.94	1,188.69	9.98	2,241.29	2,216.85	-75.28	91.712
7,300.00	5,654.63	-1,216.63	-369.39	15.48	5,236.00	5,215.97	377.94	1,188.69	9.98	2,268.20	2,243.54	-74.76	91.970
7,355.00	5,654.34	-1,271.61	-370.61	15.71	5,236.00	5,215.97	377.94	1,188.69	9.98	2,307.95	2,282.99	-73.93	92.458
7,400.00	5,654.03	-1,316.56	-372.60	15.93	5,220.38	5,201.63	372.12	1,190.84	9.93	2,341.39	2,316.24	-73.34	93.097
7,450.00	5,653.67	-1,366.50	-375.06	16.20	5,205.00	5,187.39	366.72	1,192.92	9.87	2,379.26	2,353.90	-72.74	93.795
7,500.00	5,653.42	-1,416.47	-376.66	16.49	5,205.00	5,187.39	366.72	1,192.92	9.87	2,416.90	2,391.13	-73.80	93.783
7,545.00	5,653.41	-1,461.47	-376.41	16.77	5,205.00	5,187.39	366.72	1,192.92	9.87	2,450.13	2,424.01	-74.66	93.798
7,600.00	5,653.58	-1,516.46	-375.76	17.12	5,196.94	5,179.87	364.01	1,193.97	9.85	2,491.03	2,464.58	-74.21	94.169
7,639.00	5,653.80	-1,555.46	-376.06	17.38	5,191.02	5,174.33	362.07	1,194.72	9.83	2,520.81	2,494.13	-73.87	94.477
7,700.00	5,654.16	-1,616.43	-378.07	17.80	5,175.00	5,159.24	357.01	1,196.58	9.78	2,568.77	2,541.82	-72.56	95.322
7,734.00	5,654.33	-1,650.36	-380.10	18.03	5,175.00	5,159.24	357.01	1,196.58	9.78	2,596.20	2,569.06	-72.05	95.666
7,800.00	5,654.58	-1,716.12	-385.69	18.51	5,175.00	5,159.24	357.01	1,196.58	9.78	2,650.75	2,623.24	-71.12	96.368
7,828.00	5,654.67	-1,743.96	-388.68	18.72	5,175.00	5,159.24	357.01	1,196.58	9.78	2,674.37	2,646.71	-70.69	96.715
7,900.00	5,655.24	-1,815.84	-391.45	19.24	5,161.39	5,146.32	352.98	1,198.00	9.74	2,732.80	2,704.31	-74.59	95.931
7,923.00	5,655.59	-1,838.79	-390.06	19.41	5,159.38	5,144.40	352.40	1,198.19	9.74	2,750.31	2,721.63	-75.54	95.908
8,000.00	5,656.61	-1,915.59	-384.67	19.98	5,144.00	5,129.66	348.23	1,199.56	9.70	2,809.03	2,779.92	-74.16	96.498
8,018.00	5,656.78	-1,933.57	-383.73	20.12	5,144.00	5,129.66	348.23	1,199.56	9.70	2,823.04	2,793.81	-73.92	96.593
8,100.00	5,657.14	-2,015.50	-380.45	20.77	5,144.00	5,129.66	348.23	1,199.56	9.70	2,887.94	2,858.16	-73.01	96.983
8,113.00	5,657.14	-2,028.49	-380.07	20.87	5,144.00	5,129.66	348.23	1,199.56	9.70	2,898.38	2,868.51	-72.85	97.056
8,200.00	5,654.81	-2,115.43	-378.10	21.56	5,144.00	5,129.66	348.23	1,199.56	9.70	2,968.64	2,938.71	-68.68	99.198
8,205.00	5,654.54	-2,120.42	-378.01	21.60	5,144.00	5,129.66	348.23	1,199.56	9.70	2,972.69	2,942.76	-68.44	99.338
8,244.17	5,653.36	-2,159.56	-377.00	21.83	5,144.00	5,129.66	348.23	1,199.56	9.70	3,004.54	2,973.77	-72.85	97.652
8,300.00	5,653.11	-2,215.35	-375.05	21.98	5,144.00	5,129.66	348.23	1,199.56	9.70	3,050.21	3,019.30	-72.85	98.674
8,389.17	5,652.72	-2,304.47	-371.94	22.25	5,128.80	5,114.98	344.48	1,200.75	9.67	3,123.67	3,092.60	-72.40	100.517
8,400.00	5,652.68	-2,315.29	-371.58	22.28	5,128.28	5,114.48	344.36	1,200.79	9.67	3,132.67	3,101.55	-72.40	100.684
8,439.76	5,652.67	-2,355.04	-370.59	22.41	5,126.46	5,112.71	343.94	1,200.93	9.66	3,165.99	3,134.73	-72.42	101.293
8,500.00	5,652.79	-2,415.27	-369.47	22.61	5,114.00	5,100.59	341.21	1,201.82	9.64	3,217.03	3,185.66	-72.04	102.540
8,600.00	5,652.99	-2,515.25	-367.63	22.98	5,114.00	5,100.59	341.21	1,201.82	9.64	3,302.26	3,270.53	-72.04	104.084
8,700.00	5,653.20	-2,615.23	-365.79	23.39	5,114.00	5,100.59	341.21	1,201.82	9.64	3,388.29	3,356.18	-72.04	105.505
8,800.00	5,653.40	-2,715.22	-363.94	23.83	5,114.00	5,100.59	341.21	1,201.82	9.64	3,475.08	3,442.54	-72.04	106.809
8,900.00	5,653.60	-2,815.20	-362.10	24.30	5,114.00	5,100.59	341.21	1,201.82	9.64	3,562.55	3,529.57	-72.04	107.999
9,000.00	5,653.81	-2,915.18	-360.25	24.80	5,114.00	5,100.59	341.21	1,201.82	9.64	3,650.67	3,617.20	-72.04	109.082
9,100.00	5,654.01	-3,015.16	-358.41	25.33	5,114.00	5,100.59	341.21	1,201.82	9.64	3,739.39	3,705.41	-72.04	110.063
9,200.00	5,654.22	-3,115.15	-356.56	25.88	5,098.81	5,085.73	338.21	1,202.85	9.61	3,828.47	3,794.06	-71.58	111.260
9,300.00	5,654.42	-3,215.13	-354.72	26.46	5,083.00	5,070.20	335.47	1,203.88	9.58	3,918.32	3,883.46	-71.10	112.399
9,400.00	5,654.62	-3,315.11	-352.87	27.07	5,083.00	5,070.20	335.47	1,203.88	9.58	4,008.46	3,973.02	-71.10	113.114
9,500.00	5,654.83	-3,415.10	-351.03	27.69	5,083.00	5,070.20	335.47	1,203.88	9.58	4,099.05	4,063.01	-71.10	113.752

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W - Razor #27J-2213A - ST-1_Existing Well - ST-1_Existing Well_Customer Supplied Surveys

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
9,584.92	5,655.00	-3,500.00	-349.46	28.24	5,083.00	5,070.20	335.47	1,203.88	9.58	4,176.31	4,139.76	-71.10	114.241
9,600.00	5,655.06	-3,515.08	-349.21	28.33	5,083.00	5,070.20	335.47	1,203.88	9.58	4,190.08	4,153.39	-71.33	114.196
9,653.95	5,655.66	-3,569.03	-348.84	28.63	5,083.00	5,070.20	335.47	1,203.88	9.58	4,239.65	4,202.50	-72.20	114.094
9,700.00	5,656.44	-3,615.07	-348.86	28.92	5,083.00	5,070.20	335.47	1,203.88	9.58	4,282.20	4,244.77	-72.20	114.398
9,800.00	5,658.14	-3,715.05	-348.90	29.59	5,083.00	5,070.20	335.47	1,203.88	9.58	4,374.85	4,336.77	-72.20	114.880
9,900.00	5,659.84	-3,815.04	-348.95	30.29	5,083.00	5,070.20	335.47	1,203.88	9.58	4,467.82	4,429.07	-72.20	115.306
10,000.00	5,661.54	-3,915.02	-348.99	31.00	5,083.00	5,070.20	335.47	1,203.88	9.58	4,561.08	4,521.65	-72.20	115.681
10,100.00	5,663.24	-4,015.01	-349.03	31.72	5,083.00	5,070.20	335.47	1,203.88	9.58	4,654.62	4,614.50	-72.20	116.010
10,200.00	5,664.95	-4,114.99	-349.08	32.46	5,083.00	5,070.20	335.47	1,203.88	9.58	4,748.42	4,707.59	-72.20	116.298
10,300.00	5,666.65	-4,214.98	-349.12	33.21	5,083.00	5,070.20	335.47	1,203.88	9.58	4,842.48	4,800.93	-72.20	116.547
10,400.00	5,668.35	-4,314.97	-349.16	33.97	5,083.00	5,070.20	335.47	1,203.88	9.58	4,936.76	4,894.48	-72.20	116.762
10,500.00	5,670.05	-4,414.95	-349.21	34.75	5,083.00	5,070.20	335.47	1,203.88	9.58	5,031.27	4,988.25	-72.20	116.946
10,600.00	5,671.75	-4,514.94	-349.25	35.53	5,083.00	5,070.20	335.47	1,203.88	9.58	5,125.99	5,082.21	-72.20	117.102
10,700.00	5,673.45	-4,614.92	-349.29	36.32	5,068.89	5,056.27	333.36	1,204.77	9.56	5,220.73	5,176.31	-71.74	117.529
10,800.00	5,675.15	-4,714.91	-349.34	37.13	5,067.54	5,054.94	333.17	1,204.86	9.56	5,315.80	5,270.62	-71.70	117.665
10,900.00	5,676.85	-4,814.89	-349.38	37.94	5,053.00	5,040.54	331.36	1,205.75	9.54	5,411.18	5,365.35	-71.23	118.072
11,000.00	5,678.55	-4,914.88	-349.42	38.76	5,053.00	5,040.54	331.36	1,205.75	9.54	5,506.56	5,459.95	-71.23	118.139
11,085.13	5,680.00	-5,000.00	-349.46	39.46	5,053.00	5,040.54	331.36	1,205.75	9.54	5,587.89	5,540.61	-71.23	118.184
11,100.00	5,680.21	-5,014.86	-349.47	39.58	5,053.00	5,040.54	331.36	1,205.75	9.54	5,602.10	5,554.92	-70.33	118.746
11,120.18	5,680.38	-5,035.04	-349.47	39.75	5,053.00	5,040.54	331.36	1,205.75	9.54	5,621.38	5,574.35	-69.12	119.548
11,200.00	5,680.76	-5,114.86	-349.47	40.41	5,053.00	5,040.54	331.36	1,205.75	9.54	5,697.67	5,650.02	-69.12	119.575
11,300.00	5,681.24	-5,214.86	-349.47	41.25	5,053.00	5,040.54	331.36	1,205.75	9.54	5,793.38	5,744.94	-69.12	119.595
11,400.00	5,681.72	-5,314.86	-349.47	42.10	5,053.00	5,040.54	331.36	1,205.75	9.54	5,889.23	5,840.00	-69.12	119.604
11,500.00	5,682.20	-5,414.86	-349.46	42.95	5,053.00	5,040.54	331.36	1,205.75	9.54	5,985.22	5,935.18	-69.12	119.602
11,600.00	5,682.68	-5,514.86	-349.46	43.81	5,053.00	5,040.54	331.36	1,205.75	9.54	6,081.34	6,030.49	-69.12	119.590
11,700.00	5,683.16	-5,614.86	-349.46	44.67	5,053.00	5,040.54	331.36	1,205.75	9.54	6,177.58	6,125.92	-69.12	119.570
11,800.00	5,683.64	-5,714.86	-349.46	45.54	5,053.00	5,040.54	331.36	1,205.75	9.54	6,273.94	6,221.46	-69.12	119.542
11,900.00	5,684.11	-5,814.85	-349.46	46.41	5,053.00	5,040.54	331.36	1,205.75	9.54	6,370.42	6,317.11	-69.12	119.507
12,000.00	5,684.59	-5,914.85	-349.46	47.29	5,053.00	5,040.54	331.36	1,205.75	9.54	6,466.99	6,412.86	-69.12	119.467
12,085.15	5,685.00	-6,000.00	-349.46	48.04	5,053.00	5,040.54	331.36	1,205.75	9.54	6,549.31	6,494.47	-69.12	119.428
12,100.00	5,685.03	-6,014.85	-349.46	48.17	5,053.00	5,040.54	331.36	1,205.75	9.54	6,563.67	6,509.05	-68.07	120.157
12,198.86	5,683.29	-6,113.69	-349.46	49.04	5,053.00	5,040.54	331.36	1,205.75	9.54	6,659.12	6,606.18	-61.45	125.793
12,200.00	5,683.25	-6,114.83	-349.46	49.05	5,053.00	5,040.54	331.36	1,205.75	9.54	6,660.22	6,607.27	-61.45	125.792
12,300.00	5,679.76	-6,214.77	-349.46	49.94	5,053.00	5,040.54	331.36	1,205.75	9.54	6,756.67	6,702.94	-61.45	125.731
12,400.00	5,676.27	-6,314.71	-349.46	50.83	5,053.00	5,040.54	331.36	1,205.75	9.54	6,853.23	6,798.69	-61.45	125.665
12,500.00	5,672.78	-6,414.65	-349.46	51.72	5,053.00	5,040.54	331.36	1,205.75	9.54	6,949.88	6,894.55	-61.45	125.597
12,600.00	5,669.29	-6,514.59	-349.46	52.62	5,053.00	5,040.54	331.36	1,205.75	9.54	7,046.63	6,990.49	-61.45	125.525
12,700.00	5,665.80	-6,614.53	-349.46	53.52	5,053.00	5,040.54	331.36	1,205.75	9.54	7,143.47	7,086.52	-61.45	125.451
12,800.00	5,662.31	-6,714.47	-349.46	54.42	5,053.00	5,040.54	331.36	1,205.75	9.54	7,240.39	7,182.64	-61.45	125.376
12,900.00	5,658.82	-6,814.41	-349.46	55.33	5,053.00	5,040.54	331.36	1,205.75	9.54	7,337.39	7,278.83	-61.45	125.298
13,000.00	5,655.33	-6,914.34	-349.46	56.24	5,053.00	5,040.54	331.36	1,205.75	9.54	7,434.48	7,375.11	-61.45	125.219
13,100.00	5,651.84	-7,014.28	-349.46	57.15	5,053.00	5,040.54	331.36	1,205.75	9.54	7,531.64	7,471.45	-61.45	125.139
13,117.21	5,651.24	-7,031.48	-349.46	57.30	5,053.00	5,040.54	331.36	1,205.75	9.54	7,548.36	7,488.04	-61.45	125.125

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W - Razor #27J-3413A - Existing Well - Existing Well_Customer Supplied Surveys

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
100.00	100.00	0.04	-0.03	3.33	80.69	80.69	92.82	1,253.19	5.00	1,256.66	1,247.36	122.93	135.223
177.00	177.00	0.14	-0.10	3.33	158.35	158.35	92.43	1,253.16	5.00	1,256.66	1,247.36	122.95	135.144
192.41	192.41	0.17	-0.12	3.33	173.42	173.42	92.32	1,253.15	5.00	1,256.66	1,247.35	105.09	135.101
200.00	200.00	0.19	-0.13	3.34	180.68	180.68	92.27	1,253.15	5.00	1,256.66	1,247.35	100.64	135.076
268.00	268.00	0.65	-0.17	3.35	245.67	245.66	91.71	1,253.23	5.01	1,256.71	1,247.39	87.94	134.769
300.00	300.00	0.97	-0.19	3.36	276.58	276.58	91.40	1,253.33	5.02	1,256.78	1,247.44	90.20	134.575
359.00	358.99	1.58	-0.26	3.38	333.89	333.89	90.80	1,253.57	5.03	1,257.01	1,247.63	93.96	134.140
400.00	399.99	2.02	-0.35	3.39	375.84	375.83	90.36	1,253.77	5.04	1,257.23	1,247.83	101.30	133.786
451.00	450.99	2.56	-0.54	3.42	430.22	430.20	89.99	1,253.90	5.05	1,257.49	1,248.05	109.89	133.272
500.00	499.98	3.08	-0.76	3.44	477.54	477.53	89.84	1,253.95	5.07	1,257.71	1,248.24	107.89	132.739
544.00	543.98	3.57	-0.95	3.47	518.60	518.58	89.78	1,254.08	5.08	1,258.00	1,248.49	106.17	132.227
600.00	599.98	4.08	-1.19	3.50	573.70	573.68	89.76	1,254.36	5.11	1,258.49	1,248.92	118.96	131.523
635.00	634.98	4.28	-1.35	3.52	608.95	608.93	89.72	1,254.54	5.12	1,258.81	1,249.20	134.32	131.040
700.00	699.98	4.48	-1.60	3.56	673.46	673.44	89.57	1,254.86	5.15	1,259.36	1,249.68	143.53	130.085
727.00	726.98	4.52	-1.68	3.58	700.11	700.09	89.49	1,255.01	5.17	1,259.58	1,249.86	152.71	129.662
800.00	799.98	4.49	-1.93	3.64	773.49	773.48	89.26	1,255.43	5.21	1,260.23	1,250.42	-159.94	128.432
819.00	818.98	4.44	-2.02	3.66	792.70	792.68	89.21	1,255.53	5.22	1,260.42	1,250.58	-154.95	128.099
900.00	899.98	4.28	-2.30	3.73	871.46	871.44	89.04	1,255.98	5.27	1,261.17	1,251.21	-155.48	126.608
911.00	910.97	4.27	-2.32	3.74	882.06	882.04	89.00	1,256.06	5.28	1,261.26	1,251.29	-155.72	126.398
993.00	992.97	4.89	-2.69	3.82	967.35	967.32	88.77	1,256.62	5.33	1,262.11	1,251.99	111.43	124.721
1,000.00	999.97	5.00	-2.74	3.83	974.79	974.76	88.76	1,256.65	5.34	1,262.19	1,252.05	109.17	124.570
1,087.00	1,086.93	7.57	-3.42	3.93	1,063.38	1,063.36	88.78	1,256.93	5.41	1,262.98	1,252.68	97.50	122.692
1,100.00	1,099.91	8.13	-3.53	3.94	1,076.49	1,076.47	88.80	1,256.97	5.42	1,263.08	1,252.76	95.75	122.404
1,176.00	1,175.78	12.54	-3.97	4.03	1,144.53	1,144.50	89.09	1,257.33	5.47	1,263.66	1,253.20	89.72	120.748
1,200.00	1,199.72	14.29	-4.09	4.06	1,165.74	1,165.72	89.23	1,257.53	5.49	1,263.92	1,253.41	91.43	120.221
1,268.00	1,267.49	19.86	-4.76	4.15	1,242.01	1,241.97	89.96	1,258.13	5.56	1,264.85	1,254.18	95.35	118.568
1,300.00	1,299.35	22.82	-5.26	4.19	1,275.84	1,275.80	90.36	1,258.21	5.59	1,265.27	1,254.53	97.33	117.792
1,360.00	1,359.01	29.01	-6.57	4.28	1,329.64	1,329.60	91.03	1,258.45	5.64	1,266.57	1,255.69	100.29	116.471
1,400.00	1,398.73	33.60	-7.76	4.33	1,366.87	1,366.83	91.50	1,258.75	5.68	1,267.89	1,256.93	103.03	115.605
1,451.00	1,449.28	40.00	-9.75	4.41	1,419.27	1,419.22	92.11	1,259.18	5.73	1,270.04	1,258.95	105.96	114.488
1,500.00	1,497.77	46.65	-12.21	4.48	1,469.87	1,469.82	92.64	1,259.52	5.77	1,272.59	1,261.39	109.69	113.565
1,542.00	1,539.25	52.69	-14.82	4.55	1,513.56	1,513.51	93.12	1,259.74	5.79	1,275.22	1,264.12	112.46	114.956
1,600.00	1,596.52	60.92	-18.80	4.60	1,572.45	1,572.39	93.83	1,259.94	5.81	1,279.17	1,268.12	115.31	115.800
1,636.00	1,632.11	65.72	-21.34	4.63	1,608.17	1,608.11	94.31	1,260.04	5.81	1,281.70	1,270.62	117.20	115.694
1,700.00	1,695.37	74.10	-26.29	4.64	1,670.82	1,670.75	95.23	1,260.23	5.82	1,286.70	1,275.61	121.00	116.020
1,728.00	1,723.02	77.79	-28.69	4.65	1,701.39	1,701.32	95.70	1,260.30	5.82	1,289.11	1,278.02	122.57	116.165
1,800.00	1,793.94	87.89	-35.93	4.67	1,778.11	1,778.02	96.88	1,260.18	5.84	1,296.15	1,285.03	126.47	116.595
1,819.00	1,812.59	90.74	-38.13	4.68	1,796.73	1,796.64	97.19	1,260.12	5.84	1,298.28	1,287.15	127.33	116.733
1,900.00	1,891.68	105.13	-48.01	4.72	1,877.44	1,877.34	98.63	1,259.86	5.87	1,307.89	1,296.72	121.09	117.041
1,911.00	1,902.35	107.40	-49.38	4.73	1,888.92	1,888.81	98.82	1,259.80	5.87	1,309.23	1,298.05	120.45	117.081
2,000.00	1,988.11	127.83	-61.59	4.79	1,983.93	1,983.82	100.03	1,259.08	5.90	1,321.05	1,309.80	121.16	117.456
2,002.00	1,990.02	128.33	-61.89	4.80	1,986.15	1,986.03	100.05	1,259.05	5.90	1,321.33	1,310.09	121.18	117.466
2,094.00	2,078.12	150.97	-75.65	4.89	2,080.46	2,080.34	100.92	1,257.59	5.94	1,334.36	1,323.01	122.96	117.508
2,100.00	2,083.87	152.42	-76.55	4.89	2,086.13	2,086.00	100.97	1,257.50	5.94	1,335.22	1,323.86	123.09	117.501
2,185.00	2,165.55	172.32	-89.10	4.99	2,168.83	2,168.69	101.60	1,256.16	5.98	1,347.32	1,335.84	124.97	117.365
2,200.00	2,180.01	175.69	-91.28	5.00	2,183.89	2,183.74	101.70	1,255.91	5.99	1,349.42	1,337.92	125.42	117.316
2,277.00	2,254.41	192.13	-102.30	5.10	2,259.81	2,259.65	102.17	1,254.54	6.03	1,360.06	1,348.44	127.80	117.022
2,300.00	2,276.71	196.79	-105.54	5.13	2,282.14	2,281.98	102.30	1,254.14	6.04	1,363.18	1,351.52	128.22	116.902
2,368.00	2,342.75	210.01	-114.87	5.22	2,346.62	2,346.45	102.70	1,252.99	6.08	1,372.27	1,360.50	129.48	116.528
2,400.00	2,373.80	216.29	-119.37	5.27	2,376.32	2,376.14	102.87	1,252.50	6.10	1,376.74	1,364.92	129.64	116.482
2,459.00	2,430.64	229.13	-128.60	5.36	2,433.79	2,433.60	103.15	1,251.61	6.14	1,386.14	1,374.24	129.96	116.491
2,500.00	2,469.97	238.48	-135.45	5.43	2,475.52	2,475.33	103.36	1,250.91	6.17	1,393.15	1,381.17	131.35	116.301

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W - Razor #27J-3413A - Existing Well - Existing Well_Customer Supplied Surveys

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
2,551.00	2,518.97	249.71	-144.02	5.52	2,524.80	2,524.60	103.62	1,250.01	6.20	1,401.90	1,389.82	133.09	116.066
2,600.00	2,566.13	260.20	-152.23	5.61	2,570.87	2,570.66	103.87	1,249.21	6.24	1,410.35	1,398.16	133.56	115.763
2,642.00	2,606.60	269.03	-159.16	5.68	2,606.45	2,606.23	104.00	1,248.65	6.26	1,417.58	1,405.31	133.93	115.523
2,700.00	2,662.37	281.98	-168.45	5.79	2,652.20	2,651.98	103.75	1,248.14	6.30	1,427.79	1,415.39	129.46	115.131
2,733.00	2,693.94	290.09	-173.55	5.86	2,678.40	2,678.18	103.38	1,247.97	6.32	1,433.74	1,421.26	127.23	114.919
2,800.00	2,758.00	306.84	-183.78	6.00	2,742.66	2,742.43	102.36	1,247.64	6.37	1,445.96	1,433.32	128.81	114.444
2,825.00	2,781.94	312.96	-187.61	6.05	2,766.68	2,766.45	102.00	1,247.51	6.39	1,450.55	1,437.85	129.40	114.270
2,900.00	2,854.15	330.61	-197.49	6.21	2,841.78	2,841.53	101.03	1,247.05	6.46	1,462.69	1,449.76	124.07	113.088
2,917.00	2,870.61	334.46	-199.29	6.24	2,858.93	2,858.69	100.86	1,246.93	6.48	1,464.99	1,452.00	122.61	112.804
3,000.00	2,951.33	352.00	-207.39	6.41	2,942.03	2,941.78	100.09	1,246.27	6.56	1,475.36	1,462.16	124.70	111.710
3,008.00	2,959.14	353.58	-208.14	6.43	2,950.00	2,949.75	100.02	1,246.20	6.57	1,476.32	1,463.09	124.91	111.603
3,100.00	3,049.28	369.97	-216.48	6.60	3,038.40	3,038.15	99.32	1,245.49	6.66	1,486.83	1,473.36	128.66	110.378
3,192.00	3,139.53	386.26	-223.69	6.78	3,132.00	3,131.74	98.52	1,244.56	6.75	1,496.23	1,482.51	120.32	109.008
3,200.00	3,147.36	387.81	-224.25	6.80	3,132.00	3,131.74	98.52	1,244.56	6.75	1,497.03	1,483.29	120.36	108.951
3,283.00	3,228.60	403.78	-230.04	6.96	3,199.69	3,199.42	97.99	1,244.31	6.83	1,505.75	1,491.80	121.22	107.909
3,300.00	3,245.24	407.04	-231.22	7.00	3,224.00	3,223.73	97.86	1,244.51	6.85	1,507.77	1,493.76	121.27	107.628
3,375.00	3,318.68	421.38	-236.36	7.15	3,275.64	3,275.36	97.71	1,245.20	6.91	1,516.68	1,502.48	121.08	106.793
3,400.00	3,343.16	426.15	-238.07	7.20	3,297.87	3,297.60	97.72	1,245.57	6.94	1,519.77	1,505.50	121.70	106.501
3,467.00	3,408.76	438.91	-242.86	7.34	3,373.83	3,373.55	97.99	1,246.78	7.02	1,528.23	1,513.76	123.44	105.607
3,500.00	3,441.06	445.20	-245.33	7.41	3,413.72	3,413.43	98.27	1,247.14	7.07	1,532.28	1,517.71	124.13	105.139
3,558.00	3,497.80	456.33	-249.84	7.53	3,475.50	3,475.21	98.80	1,247.48	7.15	1,539.41	1,524.67	125.27	104.380
3,600.00	3,538.88	464.38	-253.24	7.62	3,518.94	3,518.65	99.23	1,247.61	7.20	1,544.63	1,529.75	126.37	103.834
3,649.00	3,586.82	473.66	-257.33	7.73	3,567.94	3,567.64	99.77	1,247.74	7.27	1,550.81	1,535.79	127.65	103.217
3,700.00	3,636.73	483.21	-261.68	7.85	3,616.50	3,616.20	100.33	1,247.85	7.33	1,557.33	1,542.15	128.31	102.584
3,741.00	3,676.87	490.81	-265.20	7.94	3,653.89	3,653.59	100.69	1,247.99	7.38	1,562.67	1,547.37	128.83	102.103
3,800.00	3,734.66	501.48	-270.45	8.07	3,707.33	3,707.03	101.05	1,248.27	7.45	1,570.64	1,555.16	131.53	101.481
3,832.00	3,766.02	507.10	-273.43	8.15	3,736.08	3,735.78	101.13	1,248.46	7.48	1,575.15	1,559.58	133.02	101.164
3,900.00	3,832.67	518.90	-279.93	8.30	3,798.01	3,797.70	101.01	1,248.95	7.56	1,585.03	1,569.26	133.51	100.488
3,924.00	3,856.19	523.08	-282.23	8.35	3,820.38	3,820.07	100.91	1,249.15	7.59	1,588.60	1,572.75	133.69	100.252
4,000.00	3,930.33	538.42	-288.78	8.53	3,891.25	3,890.94	100.46	1,249.85	7.68	1,599.87	1,583.76	123.28	99.343
4,015.00	3,944.87	541.94	-289.89	8.57	3,905.29	3,904.97	100.36	1,250.01	7.70	1,602.08	1,585.92	121.68	99.167
4,100.00	4,026.80	563.67	-296.14	8.78	3,982.85	3,982.53	99.81	1,250.93	7.81	1,615.29	1,598.86	120.93	98.298
4,106.00	4,032.55	565.30	-296.59	8.80	3,988.08	3,987.76	99.77	1,251.00	7.82	1,616.28	1,599.83	120.88	98.243
4,197.00	4,120.02	589.46	-303.49	9.04	4,068.68	4,068.34	99.14	1,252.29	7.93	1,631.53	1,614.77	122.73	97.346
4,200.00	4,122.91	590.23	-303.72	9.05	4,071.46	4,071.13	99.11	1,252.34	7.93	1,632.04	1,615.27	122.74	97.314
4,289.00	4,208.82	612.55	-310.21	9.29	4,155.40	4,155.04	98.61	1,253.97	8.05	1,646.80	1,629.71	123.02	96.365
4,300.00	4,219.46	615.22	-310.98	9.32	4,166.43	4,166.08	98.55	1,254.18	8.07	1,648.58	1,631.45	123.35	96.251
4,380.00	4,297.13	633.52	-316.60	9.53	4,244.42	4,244.05	97.89	1,255.56	8.18	1,661.23	1,643.82	125.86	95.426
4,400.00	4,316.63	637.77	-317.98	9.57	4,261.24	4,260.86	97.70	1,255.87	8.21	1,664.32	1,646.84	126.15	95.233
4,473.00	4,388.08	651.93	-322.68	9.75	4,323.00	4,322.61	96.90	1,257.18	8.30	1,675.14	1,657.41	127.25	94.509
4,500.00	4,414.61	656.70	-324.27	9.82	4,347.59	4,347.18	96.53	1,257.78	8.34	1,678.96	1,661.14	126.99	94.233
4,563.00	4,476.63	667.24	-327.62	9.96	4,405.57	4,405.14	95.63	1,259.26	8.42	1,687.48	1,669.45	126.26	93.573
4,600.00	4,513.16	672.88	-329.35	10.04	4,443.84	4,443.39	95.00	1,260.27	8.48	1,692.13	1,673.97	126.51	93.160
4,655.00	4,567.64	680.10	-331.57	10.16	4,502.68	4,502.21	94.02	1,261.67	8.57	1,698.22	1,679.86	126.83	92.495
4,700.00	4,612.32	685.20	-333.13	10.24	4,552.36	4,551.86	93.11	1,262.67	8.65	1,702.58	1,684.06	127.09	91.947
4,747.00	4,659.05	690.02	-334.61	10.34	4,603.69	4,603.18	92.04	1,263.49	8.73	1,706.69	1,688.00	127.34	91.360
4,800.00	4,711.86	694.17	-336.13	10.43	4,658.20	4,657.67	90.82	1,264.22	8.81	1,710.65	1,691.80	135.59	90.735
4,839.00	4,750.80	695.95	-337.19	10.50	4,703.72	4,703.18	89.82	1,264.77	8.89	1,713.02	1,694.03	150.24	90.207
4,900.00	4,811.78	696.85	-338.14	10.59	4,792.93	4,792.38	90.29	1,265.56	9.03	1,714.58	1,695.36	-132.94	89.189
4,931.00	4,842.78	696.50	-338.13	10.63	4,820.96	4,820.40	90.89	1,265.80	9.07	1,714.46	1,695.15	-52.81	88.773
5,000.00	4,911.75	694.54	-337.59	10.71	4,884.09	4,883.51	92.19	1,266.52	9.18	1,713.49	1,693.98	-54.60	87.817

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W - Razor #27J-3413A - Existing Well - Existing Well_Customer Supplied Surveys

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
5,023.00	4,934.73	693.63	-337.35	10.74	4,906.44	4,905.85	92.52	1,266.76	9.21	1,713.06	1,693.48	-54.90	87.488
5,100.00	5,011.59	689.06	-336.40	10.83	5,422.00	5,385.65	-0.63	1,162.17	10.38	1,696.08	1,675.38	-56.20	81.964
5,115.00	5,026.54	687.87	-336.20	10.84	5,422.00	5,385.65	-0.63	1,162.17	10.38	1,692.00	1,671.29	-56.76	81.686
5,146.00	5,057.22	683.54	-336.20	10.87	5,422.00	5,385.65	-0.63	1,162.17	10.38	1,683.63	1,662.84	-72.17	80.986
5,176.00	5,086.39	676.58	-336.48	10.88	5,435.23	5,395.69	-7.37	1,156.80	10.44	1,675.14	1,654.29	-70.14	80.305
5,200.00	5,109.28	669.39	-336.66	10.88	5,453.00	5,408.70	-17.09	1,149.60	10.53	1,668.01	1,647.06	-71.62	79.617
5,206.00	5,114.93	667.36	-336.72	10.88	5,453.00	5,408.70	-17.09	1,149.60	10.53	1,666.16	1,645.20	-72.03	79.502
5,238.00	5,144.15	654.39	-337.45	10.88	5,453.00	5,408.70	-17.09	1,149.60	10.53	1,656.26	1,635.24	-76.66	78.792
5,268.00	5,170.13	639.46	-338.68	10.86	5,453.00	5,408.70	-17.09	1,149.60	10.53	1,647.09	1,626.04	-78.87	78.242
5,299.00	5,195.92	622.32	-340.13	10.83	5,471.07	5,421.49	-27.70	1,142.51	10.63	1,637.39	1,616.27	-79.25	77.511
5,300.00	5,196.73	621.75	-340.18	10.83	5,471.31	5,421.66	-27.84	1,142.42	10.63	1,637.09	1,615.96	-79.25	77.494
5,329.00	5,220.11	604.64	-341.48	10.80	5,484.00	5,430.44	-35.69	1,137.69	10.70	1,628.19	1,607.02	-79.39	76.915
5,359.00	5,243.93	586.43	-342.58	10.76	5,484.00	5,430.44	-35.69	1,137.69	10.70	1,618.91	1,597.78	-78.47	76.621
5,389.00	5,267.55	567.96	-343.56	10.73	5,498.18	5,439.98	-44.85	1,132.55	10.79	1,609.81	1,588.62	-79.00	75.989
5,400.00	5,276.11	561.07	-344.00	10.72	5,502.56	5,442.86	-47.75	1,130.98	10.81	1,606.58	1,585.37	-79.76	75.742
5,420.00	5,291.47	548.31	-345.03	10.70	5,514.00	5,450.22	-55.50	1,126.91	10.88	1,600.98	1,579.70	-81.04	75.253
5,451.00	5,314.73	527.89	-346.79	10.67	5,524.98	5,457.04	-63.18	1,123.03	10.96	1,592.51	1,571.19	-81.07	74.695
5,482.00	5,337.45	506.86	-348.40	10.63	5,545.00	5,468.78	-77.78	1,115.99	11.10	1,584.03	1,562.62	-80.80	73.980
5,500.00	5,350.53	494.53	-349.31	10.61	5,545.00	5,468.78	-77.78	1,115.99	11.10	1,579.16	1,557.76	-80.94	73.792
5,513.00	5,359.98	485.63	-349.99	10.60	5,545.00	5,468.78	-77.78	1,115.99	11.10	1,575.79	1,554.40	-81.05	73.662
5,543.00	5,381.68	464.95	-351.26	10.57	5,559.81	5,476.99	-89.02	1,110.92	11.21	1,567.85	1,546.41	-79.68	73.137
5,573.00	5,402.95	443.81	-352.09	10.53	5,575.00	5,485.10	-100.86	1,105.97	11.32	1,559.82	1,538.31	-79.52	72.513
5,600.00	5,421.44	424.15	-352.46	10.51	5,575.00	5,485.10	-100.86	1,105.97	11.32	1,552.31	1,530.83	-78.93	72.288
5,605.00	5,424.79	420.43	-352.47	10.50	5,575.00	5,485.10	-100.86	1,105.97	11.32	1,550.89	1,529.42	-78.83	72.246
5,637.00	5,445.64	396.16	-352.23	10.46	5,591.31	5,493.58	-113.84	1,100.89	11.45	1,541.51	1,519.97	-78.64	71.549
5,669.00	5,465.87	371.38	-351.62	10.43	5,605.00	5,500.58	-124.86	1,096.78	11.56	1,532.03	1,510.42	-78.33	70.891
5,700.00	5,484.83	346.86	-351.02	10.40	5,617.52	5,506.81	-135.09	1,093.12	11.66	1,523.02	1,501.30	-79.35	70.122
5,732.00	5,503.39	320.80	-350.50	10.37	5,636.00	5,515.56	-150.49	1,087.86	11.82	1,513.94	1,492.09	-79.83	69.264
5,764.00	5,521.35	294.32	-349.90	10.34	5,649.68	5,521.64	-162.14	1,084.03	11.94	1,504.97	1,483.01	-79.76	68.525
5,795.00	5,538.21	268.31	-349.46	10.32	5,666.00	5,528.37	-176.28	1,079.49	12.09	1,496.55	1,474.42	-80.66	67.623
5,800.00	5,540.84	264.06	-349.43	10.32	5,666.00	5,528.37	-176.28	1,079.49	12.09	1,495.25	1,473.11	-80.85	67.547
5,827.00	5,554.39	240.71	-349.35	10.30	5,679.06	5,533.43	-187.79	1,075.94	12.22	1,488.31	1,466.03	-81.78	66.802
5,858.00	5,568.43	213.08	-349.71	10.28	5,696.00	5,539.64	-202.93	1,071.55	12.39	1,480.92	1,458.43	-83.23	65.843
5,890.00	5,581.05	183.69	-350.47	10.27	5,723.32	5,549.14	-227.57	1,064.57	12.66	1,473.64	1,450.86	-84.13	64.703
5,900.00	5,584.66	174.37	-350.72	10.26	5,736.67	5,553.65	-239.64	1,061.08	12.80	1,471.30	1,448.38	-84.19	64.216
5,921.00	5,592.06	154.72	-351.27	10.24	5,761.67	5,561.95	-262.28	1,054.46	13.06	1,466.30	1,443.14	-84.33	63.288
5,953.00	5,602.81	124.59	-352.04	10.22	5,790.89	5,571.65	-288.73	1,046.70	13.34	1,458.57	1,435.12	-84.56	62.184
5,984.00	5,612.02	95.00	-352.61	10.20	5,818.00	5,580.77	-313.22	1,039.52	13.59	1,450.79	1,427.07	-85.29	61.185
6,000.00	5,616.27	79.58	-352.87	10.19	5,832.71	5,585.66	-326.54	1,035.63	13.75	1,446.71	1,422.82	-85.51	60.551
6,016.00	5,620.39	64.12	-353.19	10.19	5,843.81	5,589.23	-336.64	1,032.72	13.87	1,442.73	1,418.70	-85.72	60.022
6,047.00	5,627.67	33.99	-353.66	10.22	5,871.27	5,597.39	-361.85	1,025.54	14.20	1,434.92	1,410.56	-86.16	58.905
6,079.00	5,633.60	2.55	-353.73	10.29	5,891.69	5,602.62	-380.85	1,020.17	14.46	1,426.44	1,401.81	-87.02	57.919
6,100.00	5,636.74	-18.21	-353.61	10.35	5,902.90	5,605.17	-391.38	1,017.29	14.61	1,420.83	1,396.04	-87.22	57.308
6,112.00	5,638.42	-30.09	-353.51	10.38	5,910.00	5,606.67	-398.08	1,015.49	14.70	1,417.64	1,392.75	-87.33	56.945
6,200.00	5,647.45	-117.61	-352.98	13.38	5,948.87	5,614.42	-435.08	1,006.48	15.11	1,396.10	1,370.66	-88.53	54.867
6,221.00	5,648.72	-138.57	-352.96	14.16	5,993.37	5,622.07	-477.71	996.27	15.52	1,391.21	1,365.33	-88.97	53.763
6,300.00	5,653.50	-217.42	-352.57	14.21	6,032.00	5,626.49	-514.93	986.94	15.90	1,372.17	1,345.88	-88.78	52.199
6,315.00	5,654.56	-232.38	-352.42	14.22	6,057.60	5,628.40	-539.76	981.03	16.17	1,368.43	1,341.87	-88.73	51.519
6,400.00	5,659.08	-317.25	-351.76	14.27	6,115.00	5,631.63	-595.81	969.09	16.79	1,349.92	1,322.56	-89.26	49.345
6,410.00	5,659.40	-327.25	-351.72	14.28	6,115.00	5,631.63	-595.81	969.09	16.79	1,347.86	1,320.48	-89.31	49.228
6,500.00	5,660.22	-417.24	-352.30	14.34	6,155.00	5,632.59	-635.15	961.97	17.27	1,332.23	1,304.03	-89.77	47.249
6,504.00	5,660.17	-421.24	-352.36	14.35	6,156.99	5,632.59	-637.12	961.64	17.29	1,331.64	1,303.41	-89.78	47.163

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W - Razor #27J-3413A - Existing Well - Existing Well_Customer Supplied Surveys

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
6,599.00	5,659.29	-516.22	-353.62	14.42	6,210.00	5,631.30	-689.56	954.07	17.93	1,319.16	1,290.02	-89.69	45.268
6,600.00	5,659.29	-517.22	-353.63	14.42	6,210.00	5,631.30	-689.56	954.07	17.93	1,319.04	1,289.89	-89.69	45.254
6,693.00	5,659.15	-610.17	-356.52	14.49	6,292.62	5,627.06	-771.44	943.88	18.99	1,310.41	1,279.63	-89.46	42.570
6,700.00	5,659.17	-617.16	-356.89	14.50	6,299.59	5,626.70	-778.35	943.02	19.08	1,309.93	1,279.01	-89.44	42.369
6,788.00	5,659.67	-704.93	-363.18	14.57	6,357.19	5,624.49	-835.53	936.53	19.82	1,306.34	1,274.13	-89.33	40.560
6,800.00	5,659.76	-716.89	-364.20	14.58	6,364.84	5,624.33	-843.14	935.77	19.91	1,306.19	1,273.85	-89.32	40.395
6,883.00	5,659.59	-799.71	-369.49	14.67	6,418.90	5,624.08	-897.01	931.16	20.62	1,304.38	1,271.14	-89.34	39.243
6,900.00	5,659.40	-816.70	-370.16	14.69	6,430.38	5,624.07	-908.45	930.33	20.77	1,303.82	1,270.39	-89.35	39.007
6,977.00	5,658.30	-893.68	-371.02	14.78	6,494.00	5,623.81	-971.96	926.60	21.63	1,300.05	1,265.63	-89.43	37.774
7,000.00	5,657.93	-916.67	-370.73	14.81	6,494.00	5,623.81	-971.96	926.60	21.63	1,298.58	1,264.04	-89.43	37.596
7,072.00	5,656.94	-988.66	-369.82	14.91	6,540.52	5,623.35	-1,018.45	924.96	22.30	1,295.20	1,259.57	-89.42	36.352
7,100.00	5,656.59	-1,016.66	-369.60	14.95	6,557.31	5,623.11	-1,035.23	924.65	22.55	1,294.45	1,258.34	-89.42	35.852
7,120.87	5,656.31	-1,037.52	-369.60	14.99	6,569.82	5,622.91	-1,047.74	924.51	22.73	1,294.22	1,257.76	-89.41	35.498
7,166.00	5,655.60	-1,082.65	-370.14	15.08	6,608.05	5,622.21	-1,085.97	924.44	23.28	1,294.65	1,257.27	-89.39	34.630
7,200.00	5,655.12	-1,116.64	-370.53	15.16	6,657.32	5,621.39	-1,135.23	924.01	23.98	1,294.75	1,256.53	-89.40	33.874
7,261.00	5,654.73	-1,177.63	-369.85	15.34	6,722.49	5,620.46	-1,200.38	922.79	24.92	1,292.92	1,253.54	-89.37	32.830
7,300.00	5,654.63	-1,216.63	-369.39	15.48	6,757.75	5,619.96	-1,235.63	922.22	25.44	1,291.83	1,251.49	-89.35	32.020
7,315.73	5,654.57	-1,232.36	-369.52	15.54	6,771.98	5,619.77	-1,249.85	922.02	25.64	1,291.74	1,251.01	-89.34	31.715
7,355.00	5,654.34	-1,271.61	-370.61	15.71	6,797.52	5,619.43	-1,275.40	921.78	26.03	1,292.47	1,250.93	-89.32	31.109
7,400.00	5,654.03	-1,316.56	-372.60	15.93	6,824.43	5,619.17	-1,302.30	921.88	26.45	1,294.64	1,252.34	-89.32	30.606
7,450.00	5,653.67	-1,366.50	-375.06	16.20	6,873.00	5,618.94	-1,350.86	923.03	27.20	1,298.26	1,254.82	-89.32	29.889
7,500.00	5,653.42	-1,416.47	-376.66	16.49	6,895.22	5,618.91	-1,373.06	923.80	27.53	1,301.26	1,257.36	-89.35	29.639
7,545.00	5,653.41	-1,461.47	-376.41	16.77	6,949.14	5,618.96	-1,426.96	925.41	28.35	1,302.37	1,257.54	-89.36	29.057
7,600.00	5,653.58	-1,516.46	-375.76	17.12	7,047.33	5,617.85	-1,525.12	926.57	29.83	1,302.46	1,255.58	-89.31	27.786
7,630.11	5,653.74	-1,546.57	-375.94	17.32	7,084.57	5,616.40	-1,562.34	926.13	30.41	1,302.28	1,254.52	-89.24	27.268
7,639.00	5,653.80	-1,555.46	-376.06	17.38	7,093.16	5,616.04	-1,570.92	926.02	30.55	1,302.30	1,254.31	-89.22	27.140
7,700.00	5,654.16	-1,616.43	-378.07	17.80	7,152.04	5,613.49	-1,629.73	925.34	31.50	1,303.64	1,254.06	-89.10	26.296
7,734.00	5,654.33	-1,650.36	-380.10	18.03	7,176.83	5,612.49	-1,654.50	925.14	31.90	1,305.42	1,255.11	-89.06	25.944
7,800.00	5,654.58	-1,716.12	-385.69	18.51	7,221.41	5,611.78	-1,699.08	925.34	32.62	1,311.34	1,259.69	-89.02	25.389
7,828.00	5,654.67	-1,743.96	-388.68	18.72	7,253.00	5,612.14	-1,730.66	925.94	33.14	1,314.88	1,262.47	-89.03	25.087
7,900.00	5,655.24	-1,815.84	-391.45	19.24	7,338.37	5,613.31	-1,816.01	927.00	34.50	1,318.64	1,265.07	-89.02	24.617
7,923.00	5,655.59	-1,838.79	-390.06	19.41	7,366.95	5,613.37	-1,844.59	926.92	34.96	1,317.19	1,263.40	-88.94	24.489
8,000.00	5,656.61	-1,915.59	-384.67	19.98	7,436.00	5,613.09	-1,913.64	926.34	36.09	1,311.22	1,255.44	-88.94	23.507
8,018.00	5,656.78	-1,933.57	-383.73	20.12	7,436.00	5,613.09	-1,913.64	926.34	36.09	1,310.43	1,254.46	-88.95	23.410
8,100.00	5,657.14	-2,015.50	-380.45	20.77	7,499.83	5,613.30	-1,977.45	926.88	37.15	1,308.10	1,250.24	-88.96	22.607
8,102.99	5,657.14	-2,018.49	-380.36	20.79	7,501.44	5,613.33	-1,979.07	926.93	37.17	1,308.10	1,250.18	-88.96	22.585
8,113.00	5,657.14	-2,028.49	-380.07	20.87	7,506.86	5,613.42	-1,984.48	927.10	37.26	1,308.13	1,250.02	-88.96	22.511
8,200.00	5,654.81	-2,115.43	-378.10	21.56	7,569.16	5,615.12	-2,046.69	930.04	38.30	1,310.09	1,250.15	-89.03	21.855
8,205.00	5,654.54	-2,120.42	-378.01	21.60	7,573.45	5,615.26	-2,050.97	930.27	38.37	1,310.26	1,250.20	-89.04	21.815
8,244.17	5,653.36	-2,159.56	-377.00	21.83	7,607.12	5,616.50	-2,084.56	932.14	38.93	1,311.39	1,250.67	-89.26	21.598
8,300.00	5,653.11	-2,215.35	-375.05	21.98	7,657.18	5,618.73	-2,134.48	935.15	39.77	1,312.77	1,251.04	-89.37	21.269
8,389.17	5,652.72	-2,304.47	-371.94	22.25	7,754.66	5,624.11	-2,231.62	941.26	41.40	1,315.24	1,251.59	-89.62	20.662
8,400.00	5,652.68	-2,315.29	-371.58	22.28	7,770.50	5,624.94	-2,247.42	942.11	41.66	1,315.46	1,251.47	-89.66	20.558
8,439.76	5,652.67	-2,355.04	-370.59	22.41	7,909.38	5,629.19	-2,386.15	944.39	44.01	1,315.35	1,248.76	-89.84	19.754
8,500.00	5,652.79	-2,415.27	-369.47	22.61	7,989.86	5,629.04	-2,466.59	941.84	45.40	1,312.32	1,244.14	-89.83	19.247
8,600.00	5,652.99	-2,515.25	-367.63	22.98	8,076.00	5,628.68	-2,552.66	938.26	46.85	1,306.44	1,236.43	-89.81	18.661
8,700.00	5,653.20	-2,615.23	-365.79	23.39	8,120.70	5,628.74	-2,597.35	937.59	47.60	1,303.50	1,232.33	-89.80	18.314
8,709.81	5,653.22	-2,625.04	-365.60	23.43	8,124.36	5,628.75	-2,601.00	937.65	47.66	1,303.48	1,232.20	-89.80	18.286
8,800.00	5,653.40	-2,715.22	-363.94	23.83	8,168.00	5,628.92	-2,644.59	939.68	48.40	1,305.54	1,233.12	-89.81	18.027
8,900.00	5,653.60	-2,815.20	-362.10	24.30	8,351.00	5,625.02	-2,827.42	943.51	51.59	1,305.69	1,229.58	-89.62	17.155
9,000.00	5,653.81	-2,915.18	-360.25	24.80	8,443.00	5,623.74	-2,919.39	943.13	53.19	1,303.42	1,225.20	-89.55	16.662
9,029.49	5,653.87	-2,944.66	-359.71	24.95	8,443.00	5,623.74	-2,919.39	943.13	53.19	1,303.12	1,224.73	-89.55	16.625

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W - Razor #27J-3413A - Existing Well - Existing Well_Customer Supplied Surveys

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
9,100.00	5,654.01	-3,015.16	-358.41	25.33	8,480.01	5,624.37	-2,956.38	944.25	53.84	1,304.02	1,224.60	-89.58	16.420
9,200.00	5,654.22	-3,115.15	-356.56	25.88	8,534.00	5,625.72	-3,010.22	947.86	54.79	1,308.66	1,227.73	-89.63	16.170
9,300.00	5,654.42	-3,215.13	-354.72	26.46	8,621.03	5,628.96	-3,096.85	955.62	56.31	1,315.68	1,232.62	-89.77	15.840
9,400.00	5,654.62	-3,315.11	-352.87	27.07	8,744.46	5,635.25	-3,219.68	965.90	58.42	1,322.22	1,236.41	-90.03	15.410
9,500.00	5,654.83	-3,415.10	-351.03	27.69	8,933.87	5,638.54	-3,408.87	973.10	61.72	1,324.14	1,234.38	-90.16	14.752
9,584.92	5,655.00	-3,500.00	-349.46	28.24	9,025.29	5,639.92	-3,500.28	972.97	63.32	1,322.44	1,230.52	-90.21	14.387
9,600.00	5,655.06	-3,515.08	-349.21	28.33	9,037.82	5,640.17	-3,512.81	972.98	63.55	1,322.20	1,229.95	-90.22	14.332
9,631.53	5,655.33	-3,546.60	-348.90	28.51	9,064.02	5,640.75	-3,539.00	973.08	64.01	1,322.01	1,229.05	-90.23	14.222
9,653.95	5,655.66	-3,569.03	-348.84	28.63	9,083.37	5,641.23	-3,558.35	973.21	64.35	1,322.11	1,228.65	-90.25	14.146
9,700.00	5,656.44	-3,615.07	-348.86	28.92	9,138.21	5,641.99	-3,613.18	973.47	65.33	1,322.34	1,227.61	-90.24	13.960
9,800.00	5,658.14	-3,715.05	-348.90	29.59	9,270.46	5,640.08	-3,745.40	972.09	67.69	1,321.35	1,223.57	-90.06	13.515
9,900.00	5,659.84	-3,815.04	-348.95	30.29	9,356.00	5,638.22	-3,830.91	970.56	69.21	1,319.60	1,219.61	-89.92	13.197
9,972.49	5,661.08	-3,887.52	-348.98	30.80	9,413.26	5,637.27	-3,888.16	970.17	70.23	1,319.15	1,217.62	-89.83	12.993
10,000.00	5,661.54	-3,915.02	-348.99	31.00	9,434.61	5,637.05	-3,909.51	970.21	70.61	1,319.21	1,217.11	-89.81	12.921
10,100.00	5,663.24	-4,015.01	-349.03	31.72	9,539.00	5,636.22	-4,013.90	970.30	72.47	1,319.35	1,214.67	-89.70	12.603
10,200.00	5,664.95	-4,114.99	-349.08	32.46	9,611.94	5,636.50	-4,086.83	970.86	73.77	1,320.26	1,213.53	-89.65	12.370
10,300.00	5,666.65	-4,214.98	-349.12	33.21	9,799.25	5,636.24	-4,274.06	968.55	77.12	1,319.03	1,208.19	-89.50	11.900
10,400.00	5,668.35	-4,314.97	-349.16	33.97	9,906.00	5,633.57	-4,380.59	962.55	79.01	1,313.43	1,199.94	-89.31	11.573
10,500.00	5,670.05	-4,414.95	-349.21	34.75	9,968.03	5,631.63	-4,442.52	959.80	80.13	1,309.42	1,194.05	-89.17	11.349
10,562.63	5,671.11	-4,477.58	-349.23	35.24	10,001.92	5,631.12	-4,476.41	959.49	80.73	1,308.88	1,192.41	-89.13	11.238
10,600.00	5,671.75	-4,514.94	-349.25	35.53	10,041.88	5,630.85	-4,516.37	959.48	81.44	1,308.90	1,191.43	-89.08	11.143
10,700.00	5,673.45	-4,614.92	-349.29	36.32	10,142.02	5,630.74	-4,616.51	959.25	83.18	1,308.74	1,188.73	-89.00	10.905
10,711.52	5,673.65	-4,626.45	-349.30	36.42	10,152.92	5,630.64	-4,627.40	959.24	83.37	1,308.74	1,188.45	-88.99	10.880
10,800.00	5,675.15	-4,714.91	-349.34	37.13	10,223.12	5,629.79	-4,697.60	959.51	84.61	1,309.20	1,186.97	-88.90	10.710
10,900.00	5,676.85	-4,814.89	-349.38	37.94	10,295.59	5,629.78	-4,770.05	961.25	85.91	1,311.67	1,187.32	-88.85	10.548
11,000.00	5,678.55	-4,914.88	-349.42	38.76	10,371.59	5,631.43	-4,845.95	964.64	87.28	1,316.15	1,189.59	-88.87	10.400
11,085.13	5,680.00	-5,000.00	-349.46	39.46	10,454.00	5,634.10	-4,928.19	969.12	88.79	1,320.79	1,192.02	-88.93	10.257
11,100.00	5,680.21	-5,014.86	-349.47	39.58	10,469.59	5,634.58	-4,943.75	969.98	89.07	1,321.61	1,192.44	-88.92	10.231
11,120.18	5,680.38	-5,035.04	-349.47	39.75	10,492.48	5,635.17	-4,966.60	971.20	89.49	1,322.68	1,192.92	-88.92	10.194
11,200.00	5,680.76	-5,114.86	-349.47	40.41	10,597.69	5,636.33	-5,071.70	975.91	91.39	1,326.30	1,193.97	-88.95	10.022
11,300.00	5,681.24	-5,214.86	-349.47	41.25	10,684.12	5,636.51	-5,158.09	978.52	92.96	1,329.43	1,194.68	-88.94	9.866
11,400.00	5,681.72	-5,314.86	-349.47	42.10	10,873.57	5,633.28	-5,347.35	982.52	96.36	1,332.68	1,193.69	-88.77	9.588
11,500.00	5,682.20	-5,414.86	-349.46	42.95	10,992.72	5,632.34	-5,466.43	978.18	98.45	1,328.98	1,187.05	-88.70	9.363
11,600.00	5,682.68	-5,514.86	-349.46	43.81	11,093.00	5,631.34	-5,566.60	973.76	100.27	1,324.61	1,180.00	-88.63	9.160
11,700.00	5,683.16	-5,614.86	-349.46	44.67	11,151.27	5,631.30	-5,624.84	972.09	101.33	1,321.98	1,175.45	-88.62	9.022
11,719.51	5,683.25	-5,634.36	-349.46	44.84	11,161.24	5,631.45	-5,634.81	972.06	101.51	1,321.90	1,175.03	-88.62	9.000
11,800.00	5,683.64	-5,714.86	-349.46	45.54	11,232.12	5,633.11	-5,705.66	972.83	102.81	1,322.68	1,173.81	-88.68	8.885
11,900.00	5,684.11	-5,814.85	-349.46	46.41	11,341.85	5,634.54	-5,815.38	972.93	104.78	1,322.72	1,170.99	-88.72	8.718
12,000.00	5,684.59	-5,914.85	-349.46	47.29	11,442.63	5,635.54	-5,916.16	972.91	106.57	1,322.69	1,168.29	-88.74	8.567
12,016.51	5,684.67	-5,931.36	-349.46	47.43	11,458.00	5,635.68	-5,931.53	972.89	106.85	1,322.67	1,167.85	-88.74	8.544
12,085.15	5,685.00	-6,000.00	-349.46	48.04	11,514.77	5,636.15	-5,988.30	973.12	107.87	1,322.95	1,166.50	-88.75	8.456
12,100.00	5,685.03	-6,014.85	-349.46	48.17	11,526.81	5,636.25	-6,000.33	973.24	108.09	1,323.09	1,166.30	-88.75	8.438
12,198.86	5,683.29	-6,113.69	-349.46	49.04	11,601.58	5,636.91	-6,075.08	974.70	109.43	1,324.98	1,165.97	-88.80	8.333
12,200.00	5,683.25	-6,114.83	-349.46	49.05	11,602.41	5,636.92	-6,075.92	974.72	109.44	1,325.01	1,165.98	-88.80	8.332
12,300.00	5,679.76	-6,214.77	-349.46	49.94	11,734.49	5,637.55	-6,207.93	978.15	111.84	1,327.81	1,165.48	-89.03	8.180
12,400.00	5,676.27	-6,314.71	-349.46	50.83	11,854.70	5,634.99	-6,328.12	977.76	114.05	1,327.46	1,162.03	-89.10	8.024
12,500.00	5,672.78	-6,414.65	-349.46	51.72	11,950.36	5,632.68	-6,423.74	976.52	115.77	1,326.17	1,158.11	-89.15	7.891
12,537.37	5,671.47	-6,451.99	-349.46	52.06	11,977.95	5,632.43	-6,451.33	976.43	116.27	1,326.03	1,157.14	-89.18	7.852
12,600.00	5,669.29	-6,514.59	-349.46	52.62	12,023.61	5,632.58	-6,496.99	976.74	117.09	1,326.42	1,156.15	-89.25	7.790
12,700.00	5,665.80	-6,614.53	-349.46	53.52	12,097.00	5,633.78	-6,570.34	978.53	118.43	1,328.78	1,156.26	-89.42	7.702
12,800.00	5,662.31	-6,714.47	-349.46	54.42	12,189.00	5,634.62	-6,662.27	982.09	120.08	1,332.60	1,157.52	-89.59	7.611

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W - Razor #27I-3413A - Existing Well - Existing Well_Customer Supplied Surveys

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft . Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	+E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	+E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
12,900.00	5,658.82	-6,814.41	-349.46	55.33	12,336.69	5,633.21	-6,809.92	984.78	122.72	1,334.26	1,155.63	-89.75	7.469
13,000.00	5,655.33	-6,914.34	-349.46	56.24	12,443.33	5,632.00	-6,916.55	984.76	124.63	1,334.23	1,152.77	-89.86	7.353
13,057.70	5,653.31	-6,972.01	-349.46	56.76	12,501.26	5,631.27	-6,974.47	984.66	125.69	1,334.12	1,151.08	-89.92	7.289
13,100.00	5,651.84	-7,014.28	-349.46	57.15	12,505.00	5,631.22	-6,978.21	984.65	125.75	1,334.60	1,151.11	-89.92	7.273
13,117.21	5,651.24	-7,031.48	-349.46	57.30	12,505.00	5,631.22	-6,978.21	984.65	125.75	1,335.17	1,151.53	-89.92	7.270

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-2211A (Not Approved) - Plan B - Rev B1 (In-Progress)

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft . Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre		Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre		Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
		+N/-S (usft)	+E/-W (usft)				+N/-S (usft)	+E/-W (usft)					
100.00	100.00	0.04	-0.03	3.29	100.00	100.00	0.00	98.27	3.29	98.31	90.76	127.18	13.028
177.00	177.00	0.14	-0.10	3.29	177.00	177.00	0.00	98.27	3.30	98.38	90.82	127.24	13.016
200.00	200.00	0.19	-0.13	3.30	200.00	200.00	0.00	98.27	3.30	98.40	90.84	104.95	13.006
268.00	268.00	0.65	-0.17	3.31	268.00	268.00	0.00	98.27	3.32	98.45	90.85	92.48	12.958
300.00	300.00	0.97	-0.19	3.32	300.00	300.00	0.00	98.27	3.33	98.47	90.85	94.88	12.927
359.00	358.99	1.58	-0.26	3.34	358.99	358.99	0.00	98.27	3.36	98.54	90.88	98.95	12.863
400.00	399.99	2.02	-0.35	3.36	399.99	399.99	0.00	98.27	3.38	98.64	90.95	106.50	12.815
451.00	450.99	2.56	-0.54	3.38	450.99	450.99	0.00	98.27	3.40	98.85	91.10	115.36	12.757
500.00	499.98	3.08	-0.76	3.41	499.98	499.98	0.00	98.27	3.43	99.09	91.28	113.63	12.697
544.00	543.98	3.57	-0.95	3.43	543.98	543.98	0.00	98.27	3.46	99.29	91.43	112.16	12.635
600.00	599.98	4.08	-1.19	3.46	599.98	599.98	0.00	98.27	3.51	99.55	91.62	125.21	12.549
635.00	634.98	4.28	-1.35	3.49	634.98	634.98	0.00	98.27	3.53	99.72	91.73	140.67	12.491
700.00	699.98	4.48	-1.60	3.53	699.98	699.98	0.00	98.27	3.59	99.98	91.90	149.97	12.370
727.00	726.98	4.52	-1.68	3.55	726.98	726.98	0.00	98.27	3.61	100.05	91.93	159.17	12.312
800.00	799.98	4.49	-1.93	3.61	799.98	799.98	0.00	98.27	3.69	100.30	92.05	-153.52	12.150
819.00	818.98	4.44	-2.02	3.62	818.98	818.98	0.00	98.27	3.70	100.39	92.10	-148.56	12.109
900.00	899.98	4.28	-2.30	3.70	899.98	899.98	0.00	98.27	3.79	100.67	92.22	-149.19	11.912
911.00	910.97	4.27	-2.32	3.71	910.97	910.97	0.00	98.27	3.80	100.69	92.21	-149.44	11.882
993.00	992.97	4.89	-2.69	3.79	992.97	992.97	0.00	98.27	3.90	101.08	92.43	118.02	11.683
1,000.00	999.97	5.00	-2.74	3.80	999.97	999.97	0.00	98.27	3.91	101.14	92.47	115.81	11.668
1,087.00	1,086.93	7.57	-3.42	3.89	1,086.93	1,086.93	0.00	98.27	4.02	101.98	93.11	105.44	11.492
1,100.00	1,099.91	8.13	-3.53	3.91	1,099.91	1,099.91	0.00	98.27	4.03	102.13	93.22	103.97	11.467
1,176.00	1,175.78	12.54	-3.97	4.00	1,175.78	1,175.78	0.00	98.27	4.14	103.01	93.91	100.20	11.322
1,200.00	1,199.72	14.29	-4.09	4.03	1,199.72	1,199.72	0.00	98.27	4.17	103.36	94.20	102.79	11.283
1,268.00	1,267.49	19.86	-4.76	4.12	1,267.49	1,267.49	0.00	98.27	4.26	104.93	95.59	109.41	11.232
1,300.00	1,299.35	22.82	-5.26	4.16	1,299.35	1,299.35	0.00	98.27	4.31	106.02	96.59	112.77	11.243
1,360.00	1,359.01	29.01	-6.57	4.25	1,359.01	1,359.01	0.00	98.27	4.40	108.78	99.18	118.52	11.336
1,400.00	1,398.73	33.60	-7.76	4.31	1,398.73	1,398.73	0.00	98.27	4.46	111.23	101.52	123.19	11.458
1,451.00	1,449.28	40.00	-9.75	4.38	1,449.28	1,449.28	0.00	98.27	4.53	115.19	105.34	128.57	11.694
1,500.00	1,497.77	46.65	-12.21	4.46	1,497.77	1,497.77	0.00	98.27	4.61	119.93	109.95	134.58	12.009
1,542.00	1,539.25	52.69	-14.82	4.52	1,539.25	1,539.25	0.00	98.27	4.65	124.76	115.00	139.19	12.774
1,600.00	1,596.52	60.92	-18.80	4.57	1,596.72	1,596.72	-0.06	98.22	4.67	131.96	122.12	144.28	13.408
1,636.00	1,632.11	65.72	-21.34	4.60	1,632.58	1,632.58	-0.45	97.91	4.68	136.38	126.51	147.51	13.814
1,700.00	1,695.37	74.10	-26.29	4.62	1,696.15	1,696.11	-1.99	96.67	4.69	144.60	134.72	153.77	14.644
1,728.00	1,723.02	77.79	-28.69	4.62	1,723.86	1,723.80	-3.01	95.85	4.69	148.46	138.59	156.44	15.033
1,800.00	1,793.94	87.89	-35.93	4.65	1,794.51	1,794.35	-5.90	93.54	4.71	159.87	149.99	162.97	16.191
1,819.00	1,812.59	90.74	-38.13	4.65	1,813.10	1,812.91	-6.65	92.93	4.71	163.29	153.41	164.45	16.537
1,900.00	1,891.68	105.13	-48.01	4.69	1,891.82	1,891.52	-9.87	90.35	4.74	179.91	170.04	160.71	18.219
1,911.00	1,902.35	107.40	-49.38	4.70	1,902.43	1,902.12	-10.30	90.01	4.74	182.44	172.56	160.41	18.476
2,000.00	1,988.11	127.83	-61.59	4.77	1,987.63	1,987.20	-13.78	87.21	4.78	205.41	195.54	163.81	20.804
2,002.00	1,990.02	128.33	-61.89	4.77	1,989.53	1,989.10	-13.85	87.15	4.78	205.98	196.11	163.88	20.862
2,094.00	2,078.12	150.97	-75.65	4.86	2,077.04	2,076.48	-17.43	84.29	4.83	232.25	222.28	167.64	23.290
2,100.00	2,083.87	152.42	-76.55	4.87	2,082.75	2,082.19	-17.66	84.10	4.83	233.96	223.98	167.88	23.443
2,185.00	2,165.55	172.32	-89.10	4.96	2,163.92	2,163.25	-20.97	81.44	4.89	257.77	247.67	170.99	25.517
2,200.00	2,180.01	175.69	-91.28	4.98	2,178.28	2,177.59	-21.56	80.97	4.90	261.88	251.75	171.60	25.859
2,277.00	2,254.41	192.13	-102.30	5.08	2,252.28	2,251.49	-24.58	78.54	4.95	282.27	272.02	174.65	27.517
2,300.00	2,276.71	196.79	-105.54	5.11	2,274.46	2,273.64	-25.48	77.82	4.97	288.15	277.85	175.22	27.979
2,368.00	2,342.75	210.01	-114.87	5.20	2,340.18	2,339.27	-28.17	75.67	5.02	305.03	294.61	176.84	29.271
2,400.00	2,373.80	216.29	-119.37	5.25	2,371.08	2,370.13	-29.43	74.65	5.05	313.10	302.66	177.25	29.971
2,459.00	2,430.64	229.13	-128.60	5.34	2,427.62	2,426.59	-31.74	72.80	5.10	329.59	319.09	177.97	31.412
2,500.00	2,469.97	238.48	-135.45	5.41	2,466.74	2,465.65	-33.33	71.52	5.14	341.66	331.09	179.41	32.306
2,551.00	2,518.97	249.71	-144.02	5.49	2,515.49	2,514.34	-35.32	69.92	5.18	356.43	345.74	-178.83	33.369

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-2211A (Not Approved) - Plan B - Rev B1 (In-Progress)

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft . Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
2,600.00	2,566.13	260.20	-152.23	5.58	2,562.42	2,561.21	-37.24	68.38	5.23	370.35	359.57	-178.43	34.332
2,642.00	2,606.60	269.03	-159.16	5.66	2,602.71	2,601.44	-38.88	67.07	5.27	382.12	371.24	-178.10	35.126
2,700.00	2,662.37	281.98	-168.45	5.77	2,658.17	2,656.83	-41.15	65.25	5.34	398.81	387.84	177.40	36.350
2,733.00	2,693.94	290.09	-173.55	5.84	2,689.54	2,688.15	-42.43	64.22	5.37	408.82	397.80	175.18	37.087
2,800.00	2,758.00	306.84	-183.78	5.98	2,753.17	2,751.69	-45.02	62.14	5.45	429.33	418.15	176.77	38.385
2,825.00	2,781.94	312.96	-187.61	6.03	2,776.95	2,775.44	-45.99	61.36	5.48	436.89	425.64	177.34	38.849
2,900.00	2,854.15	330.61	-197.49	6.19	2,848.66	2,847.05	-48.92	59.01	5.56	458.14	446.65	171.50	39.901
2,917.00	2,870.61	334.46	-199.29	6.22	2,865.00	2,863.37	-49.59	58.47	5.59	462.58	451.05	169.97	40.105
3,000.00	2,951.33	352.00	-207.39	6.39	2,945.16	2,943.42	-52.86	55.85	5.69	482.97	471.20	172.21	41.025
3,008.00	2,959.14	353.58	-208.14	6.41	2,952.92	2,951.16	-53.18	55.59	5.70	484.84	473.04	172.44	41.103
3,100.00	3,049.28	369.97	-216.48	6.59	3,042.53	3,040.66	-56.83	52.66	5.82	504.65	492.57	176.29	41.800
3,192.00	3,139.53	386.26	-223.69	6.76	3,132.23	3,130.24	-60.50	49.72	5.95	523.86	511.56	167.93	42.593
3,200.00	3,147.36	387.81	-224.25	6.78	3,140.01	3,138.00	-60.81	49.46	5.96	525.61	513.29	168.05	42.659
3,283.00	3,228.60	403.78	-230.04	6.94	3,222.01	3,219.89	-64.11	46.82	6.08	543.74	531.19	169.24	43.328
3,300.00	3,245.24	407.04	-231.22	6.98	3,239.76	3,237.63	-64.69	46.35	6.10	547.39	534.79	169.27	43.456
3,375.00	3,318.68	421.38	-236.36	7.13	3,318.44	3,316.28	-66.25	45.10	6.20	563.04	550.23	169.23	43.977
3,400.00	3,343.16	426.15	-238.07	7.18	3,344.79	3,342.63	-66.40	44.98	6.23	568.09	555.22	169.84	44.139
3,467.00	3,408.76	438.91	-242.86	7.32	3,410.92	3,408.76	-66.41	44.97	6.32	581.55	568.50	171.36	44.567
3,500.00	3,441.06	445.20	-245.33	7.39	3,443.22	3,441.06	-66.41	44.97	6.35	588.24	575.10	171.93	44.784
3,558.00	3,497.80	456.33	-249.84	7.52	3,499.96	3,497.80	-66.41	44.97	6.42	600.14	586.86	172.88	45.171
3,600.00	3,538.88	464.38	-253.24	7.61	3,541.05	3,538.88	-66.41	44.97	6.47	608.82	595.42	173.84	45.426
3,649.00	3,586.82	473.66	-257.33	7.72	3,588.98	3,586.82	-66.41	44.97	6.53	618.92	605.38	174.95	45.710
3,700.00	3,636.73	483.21	-261.68	7.83	3,638.89	3,636.73	-66.41	44.97	6.60	629.38	615.69	175.42	45.979
3,741.00	3,676.87	490.81	-265.20	7.92	3,679.03	3,676.87	-66.41	44.97	6.65	637.73	623.92	175.80	46.183
3,800.00	3,734.66	501.48	-270.45	8.06	3,736.82	3,734.66	-66.41	44.97	6.72	649.61	635.62	178.29	46.443
3,832.00	3,766.02	507.10	-273.43	8.13	3,768.18	3,766.02	-66.41	44.97	6.77	655.97	641.88	179.66	46.573
3,900.00	3,832.67	518.90	-279.93	8.28	3,834.83	3,832.67	-66.41	44.97	6.86	669.44	655.15	179.84	46.854
3,924.00	3,856.19	523.08	-282.23	8.34	3,858.35	3,856.19	-66.41	44.97	6.89	674.21	659.85	179.90	46.951
4,000.00	3,930.33	538.42	-288.78	8.52	3,932.49	3,930.33	-66.41	44.97	6.99	690.80	676.25	169.12	47.482
4,015.00	3,944.87	541.94	-289.89	8.55	3,947.03	3,944.87	-66.41	44.97	7.02	694.42	679.83	167.45	47.610
4,100.00	4,026.80	563.67	-296.14	8.77	4,028.96	4,026.80	-66.41	44.97	7.13	716.49	701.68	166.55	48.379
4,106.00	4,032.55	565.30	-296.59	8.78	4,034.72	4,032.55	-66.41	44.97	7.14	718.14	703.31	166.49	48.439
4,197.00	4,120.02	589.46	-303.49	9.03	4,122.18	4,120.02	-66.41	44.97	7.27	742.70	727.56	168.07	49.072
4,200.00	4,122.91	590.23	-303.72	9.04	4,125.07	4,122.91	-66.41	44.97	7.28	743.48	728.34	168.07	49.091
4,289.00	4,208.82	612.55	-310.21	9.28	4,210.98	4,208.82	-66.41	44.97	7.41	766.25	750.80	167.97	49.579
4,300.00	4,219.46	615.22	-310.98	9.30	4,221.62	4,219.46	-66.41	44.97	7.42	768.97	753.48	168.25	49.626
4,380.00	4,297.13	633.52	-316.60	9.51	4,299.30	4,297.13	-66.41	44.97	7.55	787.80	772.01	170.42	49.904
4,400.00	4,316.63	637.77	-317.98	9.56	4,318.79	4,316.63	-66.41	44.97	7.58	792.21	776.35	170.62	49.944
4,473.00	4,388.08	651.93	-322.68	9.74	4,390.25	4,388.08	-66.41	44.97	7.69	806.95	790.82	171.37	50.008
4,500.00	4,414.61	656.70	-324.27	9.80	4,416.77	4,414.61	-66.41	44.97	7.73	811.92	795.69	171.00	50.016
4,563.00	4,476.63	667.24	-327.62	9.95	4,478.79	4,476.63	-66.41	44.97	7.83	822.84	806.38	170.02	49.993
4,600.00	4,513.16	672.88	-329.35	10.03	4,515.32	4,513.16	-66.41	44.97	7.89	828.65	812.06	170.09	49.930
4,655.00	4,567.64	680.10	-331.57	10.14	4,569.80	4,567.64	-66.41	44.97	7.98	836.10	819.30	170.16	49.775
4,700.00	4,612.32	685.20	-333.13	10.23	4,614.48	4,612.32	-66.41	44.97	8.06	841.36	824.40	170.26	49.618
4,747.00	4,659.05	690.02	-334.61	10.33	4,661.21	4,659.05	-66.41	44.97	8.14	846.33	829.20	170.37	49.428
4,800.00	4,711.86	694.17	-336.13	10.42	4,714.02	4,711.86	-66.41	44.97	8.22	850.72	833.41	178.43	49.146
4,839.00	4,750.80	695.95	-337.19	10.49	4,752.96	4,750.80	-66.41	44.97	8.29	852.78	835.34	-167.05	48.887
4,900.00	4,811.78	696.85	-338.14	10.57	4,813.95	4,811.78	-66.41	44.97	8.40	854.01	836.37	-90.31	48.408
4,931.00	4,842.78	696.50	-338.13	10.62	4,844.94	4,842.78	-66.41	44.97	8.45	853.70	835.96	-10.16	48.126
5,000.00	4,911.75	694.54	-337.59	10.70	6,197.57	5,658.00	694.56	44.93	13.68	838.58	816.09	-79.38	37.291
5,023.00	4,934.73	693.63	-337.35	10.73	6,196.66	5,658.00	693.65	44.93	13.68	818.08	795.55	-80.15	36.311
5,100.00	5,011.59	689.06	-336.40	10.81	6,192.09	5,658.00	689.08	44.93	13.67	750.51	727.82	-87.50	33.069

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-2211A (Not Approved) - Plan B - Rev B1 (In-Progress)

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
5,115.00	5,026.54	687.87	-336.20	10.83	6,190.90	5,658.00	687.89	44.93	13.67	737.57	714.84	-88.42	32.458
5,146.00	5,057.22	683.54	-336.20	10.86	6,186.57	5,658.00	683.56	44.93	13.67	711.48	688.54	-110.87	31.012
5,176.00	5,086.39	676.58	-336.48	10.87	6,179.61	5,658.00	676.60	44.94	13.67	687.18	664.17	-112.72	29.867
5,200.00	5,109.28	669.39	-336.66	10.87	6,172.42	5,658.00	669.41	44.94	13.66	668.36	645.41	-116.79	29.124
5,206.00	5,114.93	667.36	-336.72	10.87	6,170.39	5,658.00	667.38	44.94	13.66	663.77	640.85	-117.66	28.958
5,238.00	5,144.15	654.39	-337.45	10.86	6,157.42	5,658.00	654.41	44.94	13.65	640.52	617.98	-124.62	28.418
5,268.00	5,170.13	639.46	-338.68	10.85	6,142.49	5,658.00	639.48	44.94	13.64	620.63	598.45	-127.18	27.979
5,299.00	5,195.92	622.32	-340.13	10.82	6,125.35	5,658.00	622.34	44.94	13.63	601.50	579.52	-127.17	27.369
5,300.00	5,196.73	621.75	-340.18	10.82	6,124.78	5,658.00	621.77	44.94	13.63	600.90	578.93	-127.16	27.349
5,329.00	5,220.11	604.64	-341.48	10.79	6,107.67	5,658.00	604.66	44.94	13.62	584.00	562.20	-126.73	26.784
5,359.00	5,243.93	586.43	-342.58	10.75	6,089.46	5,658.00	586.45	44.94	13.61	567.12	545.30	-124.67	25.990
5,389.00	5,267.55	567.96	-343.56	10.72	6,070.99	5,658.00	567.98	44.94	13.60	550.81	529.08	-123.91	25.355
5,400.00	5,276.11	561.07	-344.00	10.71	6,064.10	5,658.00	561.09	44.94	13.59	545.08	523.43	-124.06	25.172
5,420.00	5,291.47	548.31	-345.03	10.69	6,051.34	5,658.00	548.33	44.94	13.59	535.18	513.65	-124.26	24.855
5,451.00	5,314.73	527.89	-346.79	10.66	6,030.92	5,658.00	527.91	44.94	13.57	520.85	499.42	-123.14	24.307
5,482.00	5,337.45	506.86	-348.40	10.62	6,009.89	5,658.00	506.88	44.94	13.56	507.42	486.03	-121.53	23.723
5,500.00	5,350.53	494.53	-349.31	10.60	5,997.56	5,658.00	494.55	44.94	13.55	499.97	478.59	-120.62	23.384
5,513.00	5,359.98	485.63	-349.99	10.59	5,988.66	5,658.00	485.65	44.94	13.55	494.76	473.39	-119.96	23.144
5,543.00	5,381.68	464.95	-351.26	10.56	5,967.98	5,658.00	464.97	44.95	13.54	483.05	461.63	-117.36	22.552
5,573.00	5,402.95	443.81	-352.09	10.52	5,936.65	5,657.58	433.64	44.95	10.78	471.79	450.40	-114.92	22.055
5,600.00	5,421.44	424.15	-352.46	10.49	5,902.18	5,655.07	399.27	44.95	10.65	461.67	440.36	-111.63	21.664
5,605.00	5,424.79	420.43	-352.47	10.49	5,896.18	5,654.40	393.31	44.95	10.62	459.78	438.49	-111.05	21.590
5,637.00	5,445.64	396.16	-352.23	10.45	5,860.22	5,648.95	357.77	44.95	10.49	447.84	426.64	-107.84	21.126
5,669.00	5,465.87	371.38	-351.62	10.42	5,828.56	5,642.13	326.86	44.95	10.38	436.26	415.13	-104.44	20.653
5,700.00	5,484.83	346.86	-351.02	10.39	5,801.18	5,634.73	300.50	44.95	10.29	425.93	404.91	-102.61	20.265
5,732.00	5,503.39	320.80	-350.50	10.36	5,775.23	5,626.44	275.91	44.96	10.20	416.58	395.64	-100.29	19.898
5,764.00	5,521.35	294.32	-349.90	10.33	5,751.80	5,617.92	254.09	44.96	10.13	408.48	387.61	-97.58	19.575
5,795.00	5,538.21	268.31	-349.46	10.31	5,731.15	5,609.60	235.20	44.96	10.07	402.20	381.40	-95.94	19.340
5,800.00	5,540.84	264.06	-349.43	10.30	5,727.95	5,608.24	232.30	44.96	10.06	401.36	380.58	-95.69	19.310
5,827.00	5,554.39	240.71	-349.35	10.29	5,710.90	5,600.72	217.00	44.96	10.02	397.73	377.00	-94.27	19.186
5,858.00	5,568.43	213.08	-349.71	10.27	5,691.72	5,591.67	200.09	44.96	9.96	395.57	374.90	-92.85	19.139
5,876.34	5,575.90	196.34	-350.13	10.26	5,680.51	5,586.08	190.37	44.96	9.94	395.27	374.63	-91.60	19.152
5,890.00	5,581.05	183.69	-350.47	10.25	5,672.20	5,581.82	183.24	44.96	9.92	395.43	374.82	-90.64	19.182
5,900.00	5,584.66	174.37	-350.72	10.25	5,666.20	5,578.66	178.14	44.96	9.90	395.75	375.15	-89.95	19.211
5,921.00	5,592.06	154.72	-351.27	10.23	5,654.04	5,572.09	167.90	44.96	9.87	396.95	376.38	-88.51	19.300
5,953.00	5,602.81	124.59	-352.04	10.21	5,636.47	5,562.18	153.39	44.96	9.83	400.11	379.59	-86.23	19.494
5,984.00	5,612.02	95.00	-352.61	10.19	5,620.00	5,552.45	140.11	44.96	9.80	404.53	384.05	-83.73	19.755
6,000.00	5,616.27	79.58	-352.87	10.18	5,611.67	5,547.37	133.51	44.96	9.79	407.34	386.88	-82.76	19.912
6,016.00	5,620.39	64.12	-353.19	10.17	5,600.00	5,540.07	124.40	44.96	9.78	410.62	390.21	-81.39	20.111
6,047.00	5,627.67	33.99	-353.66	10.20	5,588.38	5,532.61	115.49	44.96	9.76	417.83	397.44	-79.39	20.497
6,079.00	5,633.60	2.55	-353.73	10.28	5,572.85	5,522.33	103.85	44.96	9.74	426.15	405.83	-76.69	20.972
6,100.00	5,636.74	-18.21	-353.61	10.33	5,562.82	5,515.51	96.50	44.96	9.72	432.11	411.82	-75.41	21.293
6,112.00	5,638.42	-30.09	-353.51	10.37	5,557.24	5,511.65	92.47	44.96	9.71	435.74	415.46	-74.69	21.489
6,200.00	5,647.45	-117.61	-352.98	13.37	5,518.71	5,483.87	65.78	44.97	9.65	467.71	447.62	-69.28	23.289
6,221.00	5,648.72	-138.57	-352.96	14.15	5,510.06	5,477.37	60.07	44.97	9.64	476.61	456.59	-68.00	23.798
6,300.00	5,653.50	-217.42	-352.57	14.20	5,480.61	5,454.54	41.47	44.97	9.59	514.44	494.51	-65.67	25.806
6,315.00	5,654.56	-232.38	-352.42	14.21	5,475.59	5,450.55	38.44	44.97	9.58	522.38	502.46	-65.29	26.222
6,400.00	5,659.08	-317.25	-351.76	14.27	5,450.00	5,429.74	23.55	44.97	9.54	571.09	551.33	-61.34	28.902
6,410.00	5,659.40	-327.25	-351.72	14.27	5,450.00	5,429.74	23.55	44.97	9.54	577.21	557.45	-61.15	29.211
6,500.00	5,660.22	-417.24	-352.30	14.34	5,420.82	5,405.15	7.84	44.97	9.49	635.27	615.70	-56.34	32.459
6,504.00	5,660.17	-421.24	-352.36	14.34	5,419.74	5,404.23	7.29	44.97	9.48	637.97	618.41	-56.14	32.610

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-2211A (Not Approved) - Plan B - Rev B1 (In-Progress)

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft . Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
6,599.00	5,659.29	-516.22	-353.62	14.41	5,400.00	5,387.09	-2.51	44.97	9.45	704.89	685.19	-55.07	35.784
6,600.00	5,659.29	-517.22	-353.63	14.41	5,400.00	5,387.09	-2.51	44.97	9.45	705.62	685.92	-55.06	35.816
6,693.00	5,659.15	-610.17	-356.52	14.48	5,376.75	5,366.45	-13.21	44.97	9.41	776.68	756.91	-51.78	39.291
6,700.00	5,659.17	-617.16	-356.89	14.49	5,375.41	5,365.25	-13.80	44.97	9.40	782.26	762.48	-51.57	39.556
6,788.00	5,659.67	-704.93	-363.18	14.56	5,350.00	5,342.14	-24.37	44.97	9.36	854.74	834.96	-48.07	43.204
6,800.00	5,659.76	-716.89	-364.20	14.58	5,350.00	5,342.14	-24.37	44.97	9.36	864.81	844.99	-48.23	43.631
6,883.00	5,659.59	-799.71	-369.49	14.66	5,350.00	5,342.14	-24.37	44.97	9.36	934.73	914.63	-49.35	46.522
6,900.00	5,659.40	-816.70	-370.16	14.68	5,350.00	5,342.14	-24.37	44.97	9.36	949.09	928.91	-49.88	47.020
6,977.00	5,658.30	-893.68	-371.02	14.77	5,331.44	5,324.95	-31.37	44.97	9.32	1,013.78	993.34	-50.80	49.593
7,000.00	5,657.93	-916.67	-370.73	14.80	5,328.37	5,322.08	-32.47	44.97	9.31	1,033.16	1,012.64	-50.67	50.344
7,072.00	5,656.94	-988.66	-369.82	14.90	5,319.38	5,313.65	-35.59	44.97	9.30	1,094.65	1,073.87	-50.32	52.684
7,100.00	5,656.59	-1,016.66	-369.60	14.94	5,300.00	5,295.30	-41.81	44.97	9.26	1,119.25	1,098.60	-48.15	54.203
7,166.00	5,655.60	-1,082.65	-370.14	15.07	5,300.00	5,295.30	-41.81	44.97	9.26	1,177.06	1,156.31	-46.22	56.740
7,200.00	5,655.12	-1,116.64	-370.53	15.15	5,300.00	5,295.30	-41.81	44.97	9.26	1,207.21	1,186.14	-47.91	57.272
7,261.00	5,654.73	-1,177.63	-369.85	15.33	5,300.00	5,295.30	-41.81	44.97	9.26	1,261.49	1,239.80	-50.89	58.174
7,300.00	5,654.63	-1,216.63	-369.39	15.47	5,300.00	5,295.30	-41.81	44.97	9.26	1,296.54	1,274.90	-48.55	59.917
7,355.00	5,654.34	-1,271.61	-370.61	15.70	5,300.00	5,295.30	-41.81	44.97	9.26	1,346.85	1,325.39	-44.70	62.752
7,400.00	5,654.03	-1,316.56	-372.60	15.92	5,300.00	5,295.30	-41.81	44.97	9.26	1,388.54	1,366.93	-44.20	64.241
7,450.00	5,653.67	-1,366.50	-375.06	16.19	5,300.00	5,295.30	-41.81	44.97	9.26	1,435.15	1,413.38	-43.61	65.912
7,500.00	5,653.42	-1,416.47	-376.66	16.49	5,279.54	5,275.69	-47.64	44.97	9.22	1,481.27	1,458.89	-46.71	66.206
7,545.00	5,653.41	-1,461.47	-376.41	16.76	5,276.39	5,272.65	-48.47	44.97	9.22	1,522.86	1,499.82	-50.20	66.083
7,600.00	5,653.58	-1,516.46	-375.76	17.12	5,272.78	5,269.16	-49.40	44.97	9.21	1,573.88	1,550.79	-48.13	68.187
7,639.00	5,653.80	-1,555.46	-376.06	17.37	5,270.35	5,266.81	-50.01	44.97	9.21	1,610.41	1,587.34	-46.51	69.812
7,700.00	5,654.16	-1,616.43	-378.07	17.79	5,250.00	5,247.01	-54.69	44.97	9.17	1,668.46	1,645.98	-40.80	74.199
7,734.00	5,654.33	-1,650.36	-380.10	18.03	5,250.00	5,247.01	-54.69	44.97	9.17	1,700.82	1,678.60	-38.10	76.547
7,800.00	5,654.58	-1,716.12	-385.69	18.51	5,250.00	5,247.01	-54.69	44.97	9.17	1,764.07	1,742.38	-33.08	81.332
7,828.00	5,654.67	-1,743.96	-388.68	18.71	5,250.00	5,247.01	-54.69	44.97	9.17	1,791.06	1,769.65	-30.70	83.671
7,900.00	5,655.24	-1,815.84	-391.45	19.23	5,250.00	5,247.01	-54.69	44.97	9.17	1,859.78	1,834.38	-52.44	73.235
7,923.00	5,655.59	-1,838.79	-390.06	19.40	5,250.00	5,247.01	-54.69	44.97	9.17	1,881.28	1,855.12	-56.99	71.918
8,000.00	5,656.61	-1,915.59	-384.67	19.98	5,250.00	5,247.01	-54.69	44.97	9.17	1,953.29	1,927.11	-53.68	74.602
8,018.00	5,656.78	-1,933.57	-383.73	20.11	5,250.00	5,247.01	-54.69	44.97	9.17	1,970.25	1,944.09	-52.83	75.304
8,100.00	5,657.14	-2,015.50	-380.45	20.76	5,250.00	5,247.01	-54.69	44.97	9.17	2,047.92	2,021.72	-49.91	78.169
8,113.00	5,657.14	-2,028.49	-380.07	20.86	5,250.00	5,247.01	-54.69	44.97	9.17	2,060.29	2,034.10	-49.42	78.659
8,200.00	5,654.81	-2,115.43	-378.10	21.56	5,250.00	5,247.01	-54.69	44.97	9.17	2,142.88	2,117.78	-41.66	85.363
8,205.00	5,654.54	-2,120.42	-378.01	21.60	5,250.00	5,247.01	-54.69	44.97	9.17	2,147.62	2,122.58	-41.25	85.764
8,244.17	5,653.36	-2,159.56	-377.00	21.82	5,250.00	5,247.01	-54.69	44.97	9.17	2,184.87	2,157.84	-50.00	80.815
8,300.00	5,653.11	-2,215.35	-375.05	21.97	5,250.00	5,247.01	-54.69	44.97	9.17	2,238.26	2,211.12	-50.00	82.458
8,389.17	5,652.72	-2,304.47	-371.94	22.24	5,250.00	5,247.01	-54.69	44.97	9.17	2,323.78	2,296.44	-50.00	85.001
8,400.00	5,652.68	-2,315.29	-371.58	22.27	5,250.00	5,247.01	-54.69	44.97	9.17	2,334.18	2,306.86	-49.76	85.428
8,439.76	5,652.67	-2,355.04	-370.59	22.40	5,250.00	5,247.01	-54.69	44.97	9.17	2,372.52	2,345.27	-48.79	87.058
8,500.00	5,652.79	-2,415.27	-369.47	22.60	5,250.00	5,247.01	-54.69	44.97	9.17	2,430.79	2,403.39	-48.79	88.716
8,600.00	5,652.99	-2,515.25	-367.63	22.97	5,228.88	5,226.27	-58.72	44.97	9.13	2,527.22	2,499.90	-47.35	92.491
8,700.00	5,653.20	-2,615.23	-365.79	23.38	5,226.05	5,223.49	-59.20	44.97	9.12	2,624.25	2,596.68	-47.16	95.190
8,800.00	5,653.40	-2,715.22	-363.94	23.82	5,223.39	5,220.87	-59.63	44.97	9.12	2,721.47	2,693.63	-46.99	97.753
8,900.00	5,653.60	-2,815.20	-362.10	24.29	5,200.00	5,197.70	-62.88	44.97	9.08	2,819.37	2,791.59	-45.47	101.481
9,000.00	5,653.81	-2,915.18	-360.25	24.79	5,200.00	5,197.70	-62.88	44.97	9.08	2,916.83	2,888.69	-45.47	103.664
9,100.00	5,654.01	-3,015.16	-358.41	25.32	5,200.00	5,197.70	-62.88	44.97	9.08	3,014.46	2,985.94	-45.47	105.717
9,200.00	5,654.22	-3,115.15	-356.56	25.88	5,200.00	5,197.70	-62.88	44.97	9.08	3,112.23	3,083.32	-45.47	107.643
9,300.00	5,654.42	-3,215.13	-354.72	26.46	5,200.00	5,197.70	-62.88	44.97	9.08	3,210.15	3,180.82	-45.47	109.449
9,400.00	5,654.62	-3,315.11	-352.87	27.06	5,200.00	5,197.70	-62.88	44.97	9.08	3,308.19	3,278.42	-45.47	111.139
9,500.00	5,654.83	-3,415.10	-351.03	27.69	5,200.00	5,197.70	-62.88	44.97	9.08	3,406.34	3,376.12	-45.47	112.719
9,584.92	5,655.00	-3,500.00	-349.46	28.23	5,200.00	5,197.70	-62.88	44.97	9.08	3,489.77	3,459.16	-45.47	113.981

Anticollision Report for Razor #27J-3409A - Rev_D0

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Sec. 27-T10N-R58W (#27 J Pad) - Razor #27J-2211A (Not Approved) - Plan B - Rev B1 (In-Progress)

Scan Range: 0.00 to 13,117.21 usft. Measured Depth.

Scan Radius is 20,000.00 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids usft	Relative Highside Bearing	Clearance Factor
9,600.00	5,655.06	-3,515.08	-349.21	28.32	5,200.00	5,197.70	-62.88	44.97	9.08	3,504.61	3,473.96	-45.29	114.362
9,653.95	5,655.66	-3,569.03	-348.84	28.63	5,200.00	5,197.70	-62.88	44.97	9.08	3,557.80	3,527.10	-44.57	115.911
9,700.00	5,656.44	-3,615.07	-348.86	28.91	5,200.00	5,197.70	-62.88	44.97	9.08	3,603.28	3,572.38	-44.57	116.611
9,800.00	5,658.14	-3,715.05	-348.90	29.59	5,200.00	5,197.70	-62.88	44.97	9.08	3,702.10	3,670.71	-44.57	117.951
9,900.00	5,659.84	-3,815.04	-348.95	30.28	5,200.00	5,197.70	-62.88	44.97	9.08	3,800.98	3,769.10	-44.57	119.202
10,000.00	5,661.54	-3,915.02	-348.99	30.99	5,200.00	5,197.70	-62.88	44.97	9.08	3,899.92	3,867.52	-44.57	120.370
10,100.00	5,663.24	-4,015.01	-349.03	31.72	5,200.00	5,197.70	-62.88	44.97	9.08	3,998.92	3,965.99	-44.57	121.460
10,200.00	5,664.95	-4,114.99	-349.08	32.46	5,200.00	5,197.70	-62.88	44.97	9.08	4,097.96	4,064.50	-44.57	122.478
10,300.00	5,666.65	-4,214.98	-349.12	33.21	5,200.00	5,197.70	-62.88	44.97	9.08	4,197.05	4,163.04	-44.57	123.427
10,400.00	5,668.35	-4,314.97	-349.16	33.97	5,200.00	5,197.70	-62.88	44.97	9.08	4,296.18	4,261.62	-44.57	124.314
10,500.00	5,670.05	-4,414.95	-349.21	34.74	5,200.00	5,197.70	-62.88	44.97	9.08	4,395.34	4,360.22	-44.57	125.142
10,600.00	5,671.75	-4,514.94	-349.25	35.53	5,200.00	5,197.70	-62.88	44.97	9.08	4,494.55	4,458.86	-44.57	125.915
10,700.00	5,673.45	-4,614.92	-349.29	36.32	5,200.00	5,197.70	-62.88	44.97	9.08	4,593.79	4,557.52	-44.57	126.637
10,800.00	5,675.15	-4,714.91	-349.34	37.12	5,200.00	5,197.70	-62.88	44.97	9.08	4,693.06	4,656.20	-44.57	127.312
10,900.00	5,676.85	-4,814.89	-349.38	37.93	5,200.00	5,197.70	-62.88	44.97	9.08	4,792.37	4,754.91	-44.57	127.943
11,000.00	5,678.55	-4,914.88	-349.42	38.75	5,200.00	5,197.70	-62.88	44.97	9.08	4,891.70	4,853.64	-44.57	128.533
11,085.13	5,680.00	-5,000.00	-349.46	39.46	5,200.00	5,197.70	-62.88	44.97	9.08	4,976.28	4,937.71	-44.57	129.006
11,100.00	5,680.21	-5,014.86	-349.47	39.58	5,200.00	5,197.70	-62.88	44.97	9.08	4,991.05	4,953.12	-42.85	131.593
11,120.18	5,680.38	-5,035.04	-349.47	39.75	5,200.00	5,197.70	-62.88	44.97	9.08	5,011.09	4,973.99	-40.68	135.077
11,200.00	5,680.76	-5,114.86	-349.47	40.41	5,200.00	5,197.70	-62.88	44.97	9.08	5,090.34	5,052.78	-40.68	135.531
11,300.00	5,681.24	-5,214.86	-349.47	41.25	5,200.00	5,197.70	-62.88	44.97	9.08	5,189.64	5,151.50	-40.68	136.067
11,400.00	5,681.72	-5,314.86	-349.47	42.10	5,200.00	5,197.70	-62.88	44.97	9.08	5,288.97	5,250.24	-40.68	136.570
11,500.00	5,682.20	-5,414.86	-349.46	42.95	5,200.00	5,197.70	-62.88	44.97	9.08	5,388.33	5,349.01	-40.68	137.043
11,600.00	5,682.68	-5,514.86	-349.46	43.81	5,200.00	5,197.70	-62.88	44.97	9.08	5,487.70	5,447.79	-40.68	137.487
11,700.00	5,683.16	-5,614.86	-349.46	44.67	5,200.00	5,197.70	-62.88	44.97	9.08	5,587.11	5,546.59	-40.68	137.904
11,800.00	5,683.64	-5,714.86	-349.46	45.54	5,200.00	5,197.70	-62.88	44.97	9.08	5,686.53	5,645.41	-40.68	138.297
11,900.00	5,684.11	-5,814.85	-349.46	46.41	5,200.00	5,197.70	-62.88	44.97	9.08	5,785.97	5,744.24	-40.68	138.666
12,000.00	5,684.59	-5,914.85	-349.46	47.29	5,200.00	5,197.70	-62.88	44.97	9.08	5,885.43	5,843.09	-40.68	139.014
12,085.15	5,685.00	-6,000.00	-349.46	48.03	5,200.00	5,197.70	-62.88	44.97	9.08	5,970.13	5,927.27	-40.68	139.295
12,100.00	5,685.03	-6,014.85	-349.46	48.17	5,200.00	5,197.70	-62.88	44.97	9.08	5,984.91	5,942.95	-38.85	142.638
12,198.86	5,683.29	-6,113.69	-349.46	49.04	5,200.00	5,197.70	-62.88	44.97	9.08	6,083.07	6,045.82	-29.52	163.286
12,200.00	5,683.25	-6,114.83	-349.46	49.05	5,200.00	5,197.70	-62.88	44.97	9.08	6,084.20	6,046.94	-29.52	163.291
12,300.00	5,679.76	-6,214.77	-349.46	49.94	5,200.00	5,197.70	-62.88	44.97	9.08	6,183.35	6,145.58	-29.52	163.732
12,400.00	5,676.27	-6,314.71	-349.46	50.83	5,200.00	5,197.70	-62.88	44.97	9.08	6,282.52	6,244.25	-29.52	164.150
12,500.00	5,672.78	-6,414.65	-349.46	51.72	5,200.00	5,197.70	-62.88	44.97	9.08	6,381.72	6,342.93	-29.52	164.548
12,600.00	5,669.29	-6,514.59	-349.46	52.62	5,200.00	5,197.70	-62.88	44.97	9.08	6,480.94	6,441.64	-29.52	164.926
12,700.00	5,665.80	-6,614.53	-349.46	53.52	5,200.00	5,197.70	-62.88	44.97	9.08	6,580.19	6,540.37	-29.52	165.286
12,800.00	5,662.31	-6,714.47	-349.46	54.42	5,200.00	5,197.70	-62.88	44.97	9.08	6,679.45	6,639.13	-29.52	165.628
12,900.00	5,658.82	-6,814.41	-349.46	55.33	5,176.61	5,174.42	-65.07	44.97	9.03	6,778.18	6,737.88	-28.73	168.201
13,000.00	5,655.33	-6,914.34	-349.46	56.23	5,175.86	5,173.67	-65.13	44.97	9.03	6,877.45	6,836.66	-28.70	168.594
13,100.00	5,651.84	-7,014.28	-349.46	57.14	5,175.13	5,172.94	-65.18	44.97	9.03	6,976.75	6,935.46	-28.68	168.969
13,117.21	5,651.24	-7,031.48	-349.46	57.30	5,175.01	5,172.82	-65.18	44.97	9.03	6,993.84	6,952.46	-28.67	169.033

Anticollision Report for Razor #27J-3409A - Rev_D0

Survey tool program

From (usft)	To (usft)	Survey/Plan	Survey Tool
177.00	1,542.00		MWD+IFR1+MS+sag
1,636.00	6,112.00		MWD+IFR1+MS+sag
6,221.00	8,205.00		MWD+IFR1+MS+sag
8,205.00	13,117.21	Rev_D0	MWD+IFR1+MS+sag

Anticollision Info

Error Model:	ISCWSA	Output errors are at	2.00 sigma
Scan Method:	Closest Approach 3D		

Ellipse error terms are correlated across survey tool tie-on points.

Calculated ellipses incorporate surface errors.

Separation is the actual distance between ellipsoids.

Distance Between centres is the straight line distance between wellbore centres.

Clearance Factor = Distance Between Profiles / (Distance Between Profiles - Ellipse Separation).

All station coordinates were calculated using the Minimum Curvature method.



Anticollision Report for Razor #27J-3409A - Rev_D0

Direction and Coordinates are relative to True North Reference .
Vertical Depths are relative to KB 22 ft @ 4789.00usft (Frontier 26). Northing and Easting are relative to Razor #27J-3409A
Coordinate System is US State Plane 1983, Colorado Northern Zone
Central Meridian is -105.00°, Grid Convergence at Surface is: 1.07°

