

# Whiting Oil and Gas Corporation

Weld County, CO  
Sec. 33-T10N-R58W (Razor #33N Pad)  
Razor #33N-2805

Plan D  
Rev D0\_ST-1

## Sperry Drilling Services Ellipse Separation Anticollision Report

17 December, 2014

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

Reference Design: Sec. 33-T10N-R58W (Razor #33N Pad) - Razor #33N-2805 - Plan D - Rev D0\_ST-1

Well Coordinates: 1,534,411.26 N, 3,450,624.67 E (40° 47' 20.37" N, 103° 52' 21.32" W)

Datum Height: KB 17 ft @ 4740.00usft (Xtreme 18)

Scan Range: 0.00 to 13,179.06 usft. Measured Depth.

Scan Radius is 9,999.98 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Geodetic Scale Factor Applied

Version: 5000.1 Build: 70

**HALLIBURTON**

**Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1**

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

Offset Design: Sec. 33-T10N-R58W (Razor #33N Pad) - Razor #33N-2805 - Plan C - Actual Field Surveys

Scan Range: 0.00 to 13,179.06 usft. Measured Depth.

Scan Radius is 9,999.98 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
140.00	140.00	0.06	-0.83	0.14	140.00	140.00	0.06	-0.83	0.14	0.00	< 0	0.00	N/A
231.00	230.99	0.08	-1.69	0.32	231.00	230.99	0.08	-1.69	0.32	0.00	< 0	0.00	N/A
323.00	322.99	0.31	-2.59	0.51	323.00	322.99	0.31	-2.59	0.51	0.00	< 0	0.00	N/A
416.00	415.97	-0.06	-4.30	0.71	416.00	415.97	-0.06	-4.30	0.71	0.00	< 0	0.00	N/A
508.00	507.90	-1.97	-7.39	0.92	508.00	507.90	-1.97	-7.39	0.92	0.00	< 0	0.00	N/A
600.00	599.70	-5.52	-12.14	1.13	600.00	599.70	-5.52	-12.14	1.13	0.00	< 0	0.00	N/A
692.00	691.35	-10.46	-18.52	1.34	692.00	691.35	-10.46	-18.52	1.34	0.00	< 0	0.00	N/A
784.00	782.81	-16.17	-26.58	1.56	784.00	782.81	-16.17	-26.58	1.56	0.00	< 0	0.00	N/A
874.00	871.96	-23.21	-36.68	1.79	874.00	871.96	-23.21	-36.68	1.79	0.00	< 0	0.00	N/A
965.00	961.77	-31.86	-48.48	2.02	965.00	961.77	-31.86	-48.48	2.02	0.00	< 0	0.00	N/A
1,057.00	1,052.50	-40.89	-60.78	2.25	1,057.00	1,052.50	-40.89	-60.78	2.25	0.00	< 0	0.00	N/A
1,149.00	1,143.20	-49.95	-73.25	2.48	1,149.00	1,143.20	-49.95	-73.25	2.48	0.00	< 0	0.00	N/A
1,241.00	1,233.88	-59.28	-85.68	2.70	1,241.00	1,233.88	-59.28	-85.68	2.70	0.00	< 0	0.00	N/A
1,332.00	1,323.60	-68.54	-97.71	2.91	1,332.00	1,323.60	-68.54	-97.71	2.91	0.00	< 0	0.00	N/A
1,423.00	1,413.42	-77.25	-109.47	3.11	1,423.00	1,413.42	-77.25	-109.47	3.11	0.00	< 0	0.00	N/A
1,484.00	1,473.69	-82.79	-117.06	3.25	1,484.00	1,473.69	-82.79	-117.06	3.25	0.00	< 0	0.00	N/A
1,611.00	1,599.26	-94.33	-132.18	3.41	1,611.00	1,599.26	-94.33	-132.18	3.41	0.00	< 0	0.00	N/A
1,704.00	1,691.13	-102.26	-144.25	3.45	1,704.00	1,691.13	-102.26	-144.25	3.45	0.00	< 0	0.00	N/A
1,796.00	1,781.89	-110.16	-157.00	3.50	1,796.00	1,781.89	-110.16	-157.00	3.50	0.00	< 0	0.00	N/A
1,887.00	1,871.50	-120.44	-169.02	3.57	1,887.00	1,871.50	-120.44	-169.02	3.57	0.00	< 0	0.00	N/A
1,980.00	1,962.98	-132.49	-180.64	3.65	1,980.00	1,962.98	-132.49	-180.64	3.65	0.00	< 0	0.00	N/A
2,071.00	2,052.62	-143.69	-191.59	3.75	2,071.00	2,052.62	-143.69	-191.59	3.75	0.00	< 0	0.00	N/A
2,163.00	2,143.29	-153.97	-203.29	3.86	2,163.00	2,143.29	-153.97	-203.29	3.86	0.00	< 0	0.00	N/A
2,255.00	2,234.11	-162.55	-215.27	3.98	2,255.00	2,234.11	-162.55	-215.27	3.98	0.00	< 0	0.00	N/A
2,347.00	2,324.89	-171.79	-226.97	4.10	2,347.00	2,324.89	-171.79	-226.97	4.10	0.00	< 0	0.00	N/A
2,438.00	2,414.52	-182.40	-238.54	4.24	2,438.00	2,414.52	-182.40	-238.54	4.24	0.00	< 0	0.00	N/A
2,531.00	2,506.19	-193.15	-249.91	4.39	2,531.00	2,506.19	-193.15	-249.91	4.39	0.00	< 0	0.00	N/A
2,620.00	2,593.96	-202.67	-261.22	4.54	2,620.00	2,593.96	-202.67	-261.22	4.54	0.00	< 0	0.00	N/A
2,711.00	2,683.71	-211.68	-273.26	4.70	2,711.00	2,683.71	-211.68	-273.26	4.70	0.00	< 0	0.00	N/A
2,802.00	2,773.53	-220.73	-284.71	4.87	2,802.00	2,773.53	-220.73	-284.71	4.87	0.00	< 0	0.00	N/A
2,894.00	2,864.51	-229.40	-295.27	5.04	2,894.00	2,864.51	-229.40	-295.27	5.04	0.00	< 0	0.00	N/A
2,985.00	2,954.56	-236.72	-306.10	5.21	2,985.00	2,954.56	-236.72	-306.10	5.21	0.00	< 0	0.00	N/A
3,076.00	3,044.53	-244.10	-317.58	5.37	3,076.00	3,044.53	-244.10	-317.58	5.37	0.00	< 0	0.00	N/A
3,168.00	3,135.20	-253.15	-330.19	5.55	3,168.00	3,135.20	-253.15	-330.19	5.55	0.00	< 0	0.00	N/A
3,260.00	3,225.56	-263.07	-344.41	5.74	3,260.00	3,225.56	-263.07	-344.41	5.74	0.00	< 0	0.00	N/A
3,353.00	3,316.86	-273.74	-358.47	5.94	3,353.00	3,316.86	-273.74	-358.47	5.94	0.00	< 0	0.00	N/A
3,444.00	3,406.34	-284.23	-371.32	6.14	3,444.00	3,406.34	-284.23	-371.32	6.14	0.00	< 0	0.00	N/A
3,536.00	3,496.87	-294.48	-384.11	6.34	3,536.00	3,496.87	-294.48	-384.11	6.34	0.00	< 0	0.00	N/A
3,626.00	3,585.70	-303.31	-395.48	6.53	3,626.00	3,585.70	-303.31	-395.48	6.53	0.00	< 0	0.00	N/A
3,719.00	3,677.83	-310.96	-405.64	6.73	3,719.00	3,677.83	-310.96	-405.64	6.73	0.00	< 0	0.00	N/A
3,811.00	3,769.12	-318.34	-414.30	6.92	3,811.00	3,769.12	-318.34	-414.30	6.92	0.00	< 0	0.00	N/A
3,903.00	3,860.26	-326.39	-423.78	7.11	3,903.00	3,860.26	-326.39	-423.78	7.11	0.00	< 0	0.00	N/A
3,994.00	3,950.18	-334.98	-434.88	7.31	3,994.00	3,950.18	-334.98	-434.88	7.31	0.00	< 0	0.00	N/A
4,086.00	4,040.81	-344.27	-447.60	7.52	4,086.00	4,040.81	-344.27	-447.60	7.52	0.00	< 0	0.00	N/A
4,177.00	4,130.25	-353.99	-461.30	7.73	4,177.00	4,130.25	-353.99	-461.30	7.73	0.00	< 0	0.00	N/A
4,268.00	4,219.89	-363.34	-473.86	7.95	4,268.00	4,219.89	-363.34	-473.86	7.95	0.00	< 0	0.00	N/A
4,361.00	4,311.75	-372.15	-485.38	8.17	4,361.00	4,311.75	-372.15	-485.38	8.17	0.00	< 0	0.00	N/A
4,453.00	4,402.85	-379.93	-495.56	8.39	4,453.00	4,402.85	-379.93	-495.56	8.39	0.00	< 0	0.00	N/A
4,545.00	4,494.14	-387.18	-504.32	8.59	4,545.00	4,494.14	-387.18	-504.32	8.59	0.00	< 0	0.00	N/A
4,637.00	4,585.54	-394.54	-511.79	8.79	4,637.00	4,585.54	-394.54	-511.79	8.79	0.00	< 0	0.00	N/A

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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
4,729.00	4,677.01	-402.16	-518.13	8.99	4,729.00	4,677.01	-402.16	-518.13	8.99	0.00	< 0	0.00	N/A
4,821.00	4,768.60	-408.63	-523.80	9.18	4,821.00	4,768.60	-408.63	-523.80	9.18	0.00	< 0	0.00	N/A
4,910.00	4,857.39	-412.15	-528.75	9.35	4,910.00	4,857.39	-412.15	-528.75	9.35	0.00	< 0	0.00	N/A
4,999.00	4,946.32	-413.18	-531.90	9.51	4,999.00	4,946.32	-413.18	-531.90	9.51	0.00	< 0	0.00	N/A
5,088.00	5,035.30	-413.28	-533.76	9.67	5,088.00	5,035.30	-413.28	-533.76	9.67	0.00	< 0	0.00	N/A
5,175.00	5,122.03	-407.44	-535.38	9.80	5,175.00	5,122.03	-407.44	-535.38	9.80	0.00	< 0	0.00	N/A
5,220.00	5,166.23	-399.21	-536.69	9.86	5,220.00	5,166.23	-399.21	-536.69	9.86	0.00	< 0	0.00	N/A
5,265.00	5,209.52	-387.10	-538.39	9.91	5,265.00	5,209.52	-387.10	-538.39	9.91	0.00	< 0	0.00	N/A
5,309.00	5,250.86	-372.07	-538.46	9.94	5,309.00	5,250.86	-372.07	-538.46	9.94	0.00	< 0	0.00	N/A
5,354.00	5,292.06	-354.13	-536.26	9.96	5,354.00	5,292.06	-354.13	-536.26	9.96	0.00	< 0	0.00	N/A
5,399.00	5,332.09	-333.71	-534.10	9.97	5,399.00	5,332.09	-333.71	-534.10	9.97	0.00	< 0	0.00	N/A
5,444.00	5,370.53	-310.36	-533.55	10.00	5,444.00	5,370.53	-310.36	-533.55	10.00	0.00	< 0	0.00	N/A
5,489.00	5,406.91	-283.89	-534.15	10.02	5,489.00	5,406.91	-283.89	-534.15	10.02	0.00	< 0	0.00	N/A
5,533.00	5,440.00	-254.93	-535.06	10.03	5,533.00	5,440.00	-254.93	-535.06	10.03	0.00	< 0	0.00	N/A
5,578.00	5,470.89	-222.24	-535.45	10.04	5,578.00	5,470.89	-222.24	-535.45	10.04	0.00	< 0	0.00	N/A
5,623.00	5,498.80	-186.96	-534.68	10.04	5,623.00	5,498.80	-186.96	-534.68	10.04	0.00	< 0	0.00	N/A
5,668.00	5,524.32	-149.92	-533.66	10.04	5,668.00	5,524.32	-149.92	-533.66	10.04	0.00	< 0	0.00	N/A
5,713.00	5,547.77	-111.52	-533.61	10.05	5,713.00	5,547.77	-111.52	-533.61	10.05	0.00	< 0	0.00	N/A
5,757.00	5,568.73	-72.84	-534.14	10.06	5,757.00	5,568.73	-72.84	-534.14	10.06	0.00	< 0	0.00	N/A
5,802.00	5,587.48	-31.96	-534.72	10.09	5,802.00	5,587.48	-31.96	-534.72	10.09	0.00	< 0	0.00	N/A
5,847.00	5,603.19	10.20	-535.38	10.12	5,847.00	5,603.19	10.20	-535.38	10.12	0.00	< 0	0.00	N/A
5,891.00	5,616.19	52.23	-535.84	10.17	5,891.00	5,616.19	52.23	-535.84	10.17	0.00	< 0	0.00	N/A
5,936.00	5,627.10	95.88	-536.14	10.24	5,936.00	5,627.10	95.88	-536.14	10.24	0.00	< 0	0.00	N/A
5,979.00	5,634.47	138.23	-536.11	10.32	5,979.00	5,634.47	138.23	-536.11	10.32	0.00	< 0	0.00	N/A
6,032.00	5,640.41	190.88	-535.23	10.44	6,032.00	5,640.41	190.88	-535.23	10.44	0.00	< 0	0.00	N/A
6,105.00	5,644.89	263.70	-533.18	14.01	6,105.00	5,644.89	263.70	-533.18	14.01	0.00	< 0	0.00	N/A
6,195.00	5,646.20	353.67	-531.47	14.07	6,195.00	5,646.20	353.67	-531.47	14.07	0.00	< 0	0.00	N/A
6,284.00	5,646.62	442.67	-531.73	14.15	6,284.00	5,646.62	442.67	-531.73	14.15	0.00	< 0	0.00	N/A
6,374.00	5,646.99	532.65	-533.44	14.22	6,374.00	5,646.99	532.65	-533.44	14.22	0.00	< 0	0.00	N/A
6,463.00	5,646.43	621.57	-537.17	14.31	6,463.00	5,646.43	621.57	-537.17	14.31	0.00	< 0	0.00	N/A
6,553.00	5,645.97	711.45	-541.76	14.41	6,553.00	5,645.97	711.45	-541.76	14.41	0.00	< 0	0.00	N/A
6,642.00	5,644.43	800.41	-543.13	14.52	6,642.00	5,644.43	800.41	-543.13	14.52	0.00	< 0	0.00	N/A
6,732.00	5,640.60	890.32	-542.27	14.64	6,732.00	5,640.60	890.32	-542.27	14.64	0.00	< 0	0.00	N/A
6,819.00	5,637.37	977.26	-542.05	14.77	6,819.00	5,637.37	977.26	-542.05	14.77	0.00	< 0	0.00	N/A
6,909.00	5,636.25	1,067.25	-541.81	14.93	6,909.00	5,636.25	1,067.25	-541.81	14.93	0.00	< 0	0.00	N/A
6,998.00	5,635.81	1,156.24	-540.77	15.13	6,998.00	5,635.81	1,156.24	-540.77	15.13	0.00	< 0	0.00	N/A
7,088.00	5,635.10	1,246.23	-540.55	15.38	7,088.00	5,635.10	1,246.23	-540.55	15.38	0.00	< 0	0.00	N/A
7,177.00	5,634.71	1,335.15	-544.01	15.71	7,177.00	5,634.71	1,335.15	-544.01	15.71	0.00	< 0	0.00	N/A
7,267.00	5,634.10	1,425.02	-548.94	16.13	7,267.00	5,634.10	1,425.02	-548.94	16.13	0.00	< 0	0.00	N/A
7,357.00	5,633.69	1,514.91	-553.27	16.60	7,357.00	5,633.69	1,514.91	-553.27	16.60	0.00	< 0	0.00	N/A
7,446.00	5,633.63	1,603.88	-555.08	17.12	7,446.00	5,633.63	1,603.88	-555.08	17.12	0.00	< 0	0.00	N/A
7,536.00	5,633.80	1,693.86	-553.26	17.66	7,536.00	5,633.80	1,693.86	-553.26	17.66	0.00	< 0	0.00	N/A
7,625.00	5,633.77	1,782.78	-549.52	18.23	7,625.00	5,633.77	1,782.78	-549.52	18.23	0.00	< 0	0.00	N/A
7,715.00	5,633.15	1,872.64	-544.66	18.84	7,715.00	5,633.15	1,872.64	-544.66	18.84	0.00	< 0	0.00	N/A
7,804.00	5,632.58	1,961.42	-538.43	19.46	7,804.00	5,632.58	1,961.42	-538.43	19.46	0.00	< 0	0.00	N/A
7,894.00	5,632.36	2,051.28	-533.76	20.11	7,894.00	5,632.36	2,051.28	-533.76	20.11	0.00	< 0	0.00	N/A
7,983.00	5,632.33	2,140.25	-531.42	20.77	7,983.00	5,632.33	2,140.25	-531.42	20.77	0.00	< 0	0.00	N/A
8,073.00	5,631.53	2,230.22	-529.75	21.46	8,073.00	5,631.53	2,230.22	-529.75	21.46	0.00	< 0	0.00	N/A
8,160.00	5,630.39	2,317.21	-530.39	22.14	8,160.00	5,630.39	2,317.21	-530.39	22.14	0.00	< 0	0.00	N/A
8,250.00	5,629.66	2,407.19	-531.98	22.86	8,250.00	5,629.66	2,407.19	-531.98	22.86	0.00	< 0	0.00	N/A
8,339.00	5,631.29	2,496.12	-534.84	23.59	8,339.00	5,631.29	2,496.12	-534.84	23.59	0.00	< 0	0.00	N/A
8,427.00	5,634.25	2,584.03	-537.46	24.30	8,427.00	5,634.25	2,584.03	-537.46	24.30	0.00	< 0	0.00	N/A

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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
8,519.00	5,634.54	2,676.01	-536.48	25.05	8,519.00	5,634.54	2,676.01	-536.48	25.05	0.00	< 0	0.00	N/A
8,611.00	5,632.12	2,767.93	-533.73	25.79	8,611.00	5,632.12	2,767.93	-533.73	25.79	0.00	< 0	0.00	N/A
8,703.00	5,629.56	2,859.87	-531.44	26.54	8,703.00	5,629.56	2,859.87	-531.44	26.54	0.00	< 0	0.00	N/A
8,795.00	5,628.84	2,951.85	-530.93	27.31	8,795.00	5,628.84	2,951.85	-530.93	27.31	0.00	< 0	0.00	N/A
8,887.00	5,629.56	3,043.83	-533.07	28.10	8,887.00	5,629.56	3,043.83	-533.07	28.10	0.00	< 0	0.00	N/A
8,980.00	5,630.16	3,136.77	-536.18	28.89	8,980.00	5,630.16	3,136.77	-536.18	28.89	0.00	< 0	0.00	N/A
9,071.00	5,630.87	3,227.71	-539.44	29.66	9,071.00	5,630.87	3,227.71	-539.44	29.66	0.00	< 0	0.00	N/A
9,163.00	5,633.00	3,319.66	-541.53	30.44	9,163.00	5,633.00	3,319.66	-541.53	30.44	0.00	< 0	0.00	N/A
9,253.00	5,635.48	3,409.62	-541.25	31.19	9,253.00	5,635.48	3,409.62	-541.25	31.19	0.00	< 0	0.00	N/A
9,345.00	5,636.36	3,501.59	-539.43	31.96	9,345.00	5,636.36	3,501.59	-539.43	31.96	0.00	< 0	0.00	N/A
9,436.00	5,635.97	3,592.58	-537.95	32.74	9,436.00	5,635.97	3,592.58	-537.95	32.74	0.00	< 0	0.00	N/A
9,528.00	5,636.55	3,684.58	-537.56	33.53	9,528.00	5,636.55	3,684.58	-537.56	33.53	0.00	< 0	0.00	N/A
9,620.00	5,638.86	3,776.54	-537.06	34.31	9,620.00	5,638.86	3,776.54	-537.06	34.31	0.00	< 0	0.00	N/A
9,711.00	5,640.63	3,867.50	-535.13	35.08	9,711.00	5,640.63	3,867.50	-535.13	35.08	0.00	< 0	0.00	N/A
9,803.00	5,640.74	3,959.44	-531.68	35.87	9,803.00	5,640.74	3,959.44	-531.68	35.87	0.00	< 0	0.00	N/A
9,894.00	5,641.49	4,050.39	-528.95	36.66	9,894.00	5,641.49	4,050.39	-528.95	36.66	0.00	< 0	0.00	N/A
9,985.00	5,643.18	4,141.36	-527.59	37.45	9,985.00	5,643.18	4,141.36	-527.59	37.45	0.00	< 0	0.00	N/A
9,989.44	5,643.25	4,145.80	-527.53	37.48	9,989.44	5,643.24	4,145.80	-527.53	37.49	0.01	< 0	-12.91	0.000
10,000.00	5,643.51	4,156.35	-527.34	37.54	10,000.00	5,643.37	4,156.36	-527.38	37.58	0.15	< 0	-12.92	0.004
10,029.66	5,644.79	4,185.97	-526.53	37.62	10,029.63	5,643.53	4,185.98	-526.82	37.84	1.29	< 0	-12.94	0.035
10,100.00	5,648.67	4,256.19	-525.37	37.84	10,099.81	5,642.88	4,256.13	-524.96	38.45	5.81	< 0	3.99	0.172
10,129.86	5,650.25	4,286.01	-525.65	37.93	10,129.69	5,642.75	4,286.01	-524.69	38.71	7.57	< 0	7.34	0.218
10,160.81	5,651.74	4,316.92	-526.09	38.02	10,160.72	5,642.92	4,317.04	-524.99	38.98	8.90	< 0	7.12	0.256
10,200.00	5,653.46	4,356.07	-526.51	38.15	10,199.80	5,643.28	4,356.11	-525.64	39.33	10.22	< 0	4.90	0.298
10,300.00	5,657.85	4,455.97	-527.59	38.49	10,299.57	5,642.39	4,455.83	-523.01	40.20	16.12	< 0	16.52	0.405
10,400.00	5,662.23	4,555.87	-528.66	38.85	10,400.39	5,644.60	4,556.61	-522.38	41.09	18.73	< 0	19.61	0.443
10,500.00	5,666.62	4,655.77	-529.74	39.23	10,500.66	5,648.61	4,656.70	-526.61	41.99	18.30	< 0	9.88	0.494
10,547.29	5,668.69	4,703.01	-530.25	39.42	10,547.88	5,650.67	4,703.82	-528.99	42.42	18.08	< 0	4.01	0.512
10,600.00	5,671.00	4,755.66	-530.82	39.63	10,600.25	5,652.41	4,756.12	-530.93	42.89	18.60	< 0	-0.35	0.530
10,700.00	5,675.39	4,855.56	-531.89	40.05	10,700.45	5,654.82	4,856.28	-532.86	43.79	20.60	< 0	-2.69	0.578
10,800.00	5,679.77	4,955.46	-532.97	40.49	10,800.27	5,658.35	4,956.01	-534.83	44.68	21.51	< 0	-4.94	0.590
10,900.00	5,684.16	5,055.36	-534.04	40.95	10,899.82	5,660.06	5,055.54	-535.35	45.57	24.13	< 0	-3.09	0.661
10,919.26	5,685.00	5,074.60	-534.25	41.04	10,919.08	5,660.20	5,074.80	-535.30	45.74	24.83	< 0	-2.43	0.681
10,975.26	5,687.01	5,130.56	-534.54	41.31	10,975.20	5,660.82	5,130.92	-535.60	46.25	26.21	< 0	-2.33	0.715
11,000.00	5,687.70	5,155.29	-534.53	41.43	10,999.97	5,661.19	5,155.68	-535.94	46.47	26.54	< 0	-3.05	0.720
11,100.00	5,690.48	5,255.25	-534.48	41.92	11,099.86	5,662.41	5,255.55	-537.57	47.36	28.24	< 0	-6.27	0.742
11,200.00	5,693.27	5,355.21	-534.44	42.43	11,200.53	5,664.86	5,356.17	-539.61	48.24	28.88	< 0	-10.31	0.717
11,300.00	5,696.05	5,455.17	-534.39	42.96	11,301.09	5,669.54	5,456.62	-539.29	49.12	26.99	< 0	-10.45	0.661
11,400.00	5,698.83	5,555.14	-534.35	43.50	11,400.98	5,674.76	5,556.36	-538.37	49.99	24.43	< 0	-9.48	0.599
11,500.00	5,701.62	5,655.10	-534.30	44.06	11,500.76	5,679.32	5,656.04	-538.14	50.87	22.65	< 0	-9.74	0.546
11,600.00	5,704.40	5,755.06	-534.26	44.63	11,600.74	5,683.47	5,755.93	-538.63	51.73	21.41	< 0	-11.78	0.496
11,621.40	5,705.00	5,776.45	-534.25	44.76	11,622.16	5,684.39	5,777.33	-538.74	51.92	21.11	< 0	-12.28	0.484
11,703.35	5,706.11	5,858.39	-534.23	45.24	11,703.39	5,686.54	5,858.52	-538.16	52.63	19.97	< 0	-11.36	0.459
11,800.00	5,706.04	5,955.04	-534.23	45.82	11,800.50	5,687.06	5,955.60	-536.46	53.50	19.11	< 0	-6.68	0.461
11,891.62	5,705.97	6,046.66	-534.23	46.38	11,891.58	5,689.15	6,046.65	-537.08	54.32	17.06	< 0	-9.59	0.393
11,900.00	5,705.96	6,055.04	-534.23	46.44	11,899.89	5,689.12	6,054.95	-537.04	54.40	17.08	< 0	-9.47	0.394
12,000.00	5,705.89	6,155.04	-534.24	47.06	11,999.68	5,687.75	6,154.73	-536.75	55.28	18.31	< 0	-7.89	0.425
12,100.00	5,705.81	6,255.04	-534.24	47.70	12,100.23	5,688.00	6,255.26	-538.23	56.18	18.25	< 0	-12.65	0.392
12,163.87	5,705.76	6,318.91	-534.24	48.11	12,163.88	5,688.60	6,318.90	-539.20	56.76	17.87	< 0	-16.14	0.359
12,200.00	5,705.74	6,355.04	-534.24	48.35	12,199.93	5,688.48	6,354.95	-539.23	57.08	17.97	< 0	-16.12	0.359
12,300.00	5,705.66	6,455.04	-534.24	49.01	12,299.81	5,686.75	6,454.74	-535.77	57.97	18.97	< 0	-4.62	0.439
12,400.00	5,705.59	6,555.04	-534.24	49.68	12,400.14	5,685.90	6,555.03	-533.04	58.88	19.72	< 0	3.49	0.454

**Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1**

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

Offset Design: Sec. 33-T10N-R58W (Razor #33N Pad) - Razor #33N-2805 - Plan C - Actual Field Surveys

Scan Range: 0.00 to 13,179.06 usft. Measured Depth.

Scan Radius is 9,999.98 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
12,500.00	5,705.51	6,655.04	-534.24	50.36	12,500.43	5,686.62	6,655.31	-533.29	59.80	18.92	< 0	2.89	0.431
12,600.00	5,705.44	6,755.04	-534.24	51.05	12,600.43	5,688.39	6,755.28	-533.76	60.70	17.06	< 0	1.63	0.386
12,637.37	5,705.41	6,792.41	-534.24	51.32	12,637.60	5,688.86	6,792.39	-531.75	61.03	16.73	< 0	8.56	0.357
12,700.00	5,705.36	6,855.04	-534.24	51.75	12,699.91	5,689.26	6,854.51	-526.86	61.57	17.72	< 0	24.65	0.283
12,800.00	5,705.29	6,955.04	-534.25	52.46	12,799.28	5,688.75	6,953.58	-519.16	62.42	22.44	< 0	42.37	0.265
12,900.00	5,705.21	7,055.04	-534.25	53.18	12,900.08	5,687.62	7,054.12	-512.26	63.32	28.17	< 0	51.33	0.294
13,000.00	5,705.13	7,155.04	-534.25	53.91	13,001.04	5,687.79	7,155.06	-510.41	64.23	29.48	< 0	53.96	0.295
13,100.00	5,705.06	7,255.04	-534.25	54.64	13,101.18	5,686.92	7,255.19	-511.60	65.11	29.02	< 0	51.30	0.295
13,153.97	5,705.02	7,309.01	-534.25	55.04	13,155.14	5,686.20	7,309.13	-512.52	65.45	28.74	< 0	49.11	0.297
13,179.06	5,705.00	7,334.10	-534.25	55.23	13,169.00	5,686.02	7,322.99	-512.76	65.51	30.75	< 0	48.53	0.319

**Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1**

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

Offset Design: Sec. 33-T10N-R58W - Razor #33O-2809A - Customer Supplied Plan - Customer Supplied Plan

Scan Range: 0.00 to 13,179.06 usft. Measured Depth.

Scan Radius is 9,999.98 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
140.00	140.00	0.06	-0.83	3.29	131.50	131.50	-155.94	1,411.52	3.29	1,420.94	1,413.39	-177.61	188.199
231.00	230.99	0.08	-1.69	3.31	222.49	222.49	-155.94	1,411.52	3.31	1,421.80	1,414.22	-172.18	187.575
323.00	322.99	0.31	-2.59	3.33	314.49	314.49	-155.94	1,411.52	3.34	1,422.71	1,415.08	163.74	186.389
416.00	415.97	-0.06	-4.30	3.37	407.47	407.47	-155.94	1,411.52	3.38	1,424.38	1,416.67	-145.60	184.724
508.00	507.90	-1.97	-7.39	3.42	499.40	499.40	-155.94	1,411.52	3.44	1,427.24	1,419.43	-140.23	182.743
600.00	599.70	-5.52	-12.14	3.48	591.20	591.20	-155.94	1,411.52	3.50	1,431.58	1,423.65	-134.93	180.479
692.00	691.35	-10.46	-18.52	3.55	682.85	682.85	-155.94	1,411.52	3.58	1,437.42	1,429.35	-137.30	177.998
784.00	782.81	-16.17	-26.58	3.64	774.31	774.31	-155.94	1,411.52	3.66	1,444.88	1,436.64	-140.09	175.371
874.00	871.96	-23.21	-36.68	3.74	888.04	888.02	-154.75	1,410.88	3.78	1,453.73	1,445.29	-139.16	172.316
965.00	961.77	-31.86	-48.48	3.86	1,008.75	1,008.56	-149.25	1,407.94	3.92	1,462.19	1,453.52	-138.19	168.514
1,057.00	1,052.50	-40.89	-60.78	3.99	1,099.10	1,098.70	-143.69	1,404.97	4.04	1,470.37	1,461.46	-140.31	165.197
1,149.00	1,143.20	-49.95	-73.25	4.12	1,189.44	1,188.81	-138.14	1,401.99	4.17	1,478.86	1,469.72	-139.88	161.740
1,241.00	1,233.88	-59.28	-85.68	4.26	1,279.73	1,278.88	-132.58	1,399.02	4.30	1,487.47	1,478.07	-139.79	158.234
1,332.00	1,323.60	-68.54	-97.71	4.39	1,369.06	1,368.00	-127.09	1,396.08	4.44	1,495.87	1,486.21	-139.56	154.849
1,423.00	1,413.42	-77.25	-109.47	4.53	1,458.51	1,457.23	-121.59	1,393.14	4.55	1,504.17	1,494.29	-143.21	152.201
1,484.00	1,473.69	-82.79	-117.06	4.62	1,518.54	1,517.12	-117.89	1,391.16	4.59	1,509.53	1,499.62	-141.19	152.378
1,611.00	1,599.26	-94.33	-132.18	4.74	1,643.59	1,641.86	-110.20	1,387.05	4.63	1,520.17	1,510.32	-141.92	154.407
1,704.00	1,691.13	-102.26	-144.25	4.77	1,735.15	1,733.19	-104.57	1,384.03	4.68	1,529.12	1,519.24	-150.07	154.771
1,796.00	1,781.89	-110.16	-157.00	4.80	1,825.63	1,823.45	-99.01	1,381.05	4.73	1,538.91	1,528.95	-146.32	154.546
1,887.00	1,871.50	-120.44	-169.02	4.85	1,914.78	1,912.39	-93.52	1,378.12	4.79	1,548.16	1,538.11	-134.43	153.961
1,980.00	1,962.98	-132.49	-180.64	4.92	2,005.68	2,003.07	-87.93	1,375.13	4.87	1,557.16	1,546.98	-135.63	152.998
2,071.00	2,052.62	-143.69	-191.59	4.99	2,094.77	2,091.94	-82.45	1,372.20	4.95	1,565.72	1,555.40	-136.55	151.843
2,163.00	2,143.29	-153.97	-203.29	5.07	2,184.97	2,181.92	-76.91	1,369.23	5.05	1,575.11	1,564.66	-145.53	150.702
2,255.00	2,234.11	-162.55	-215.27	5.16	2,275.43	2,272.16	-71.34	1,366.25	5.15	1,584.83	1,574.20	-149.16	149.137
2,347.00	2,324.89	-171.79	-226.97	5.26	2,365.81	2,362.32	-65.78	1,363.28	5.26	1,594.43	1,583.63	-141.44	147.561
2,438.00	2,414.52	-182.40	-238.54	5.37	2,454.95	2,451.25	-60.30	1,360.34	5.38	1,604.17	1,593.17	-141.21	145.795
2,531.00	2,506.19	-193.15	-249.91	5.49	2,546.12	2,542.19	-54.70	1,357.34	5.50	1,613.81	1,602.59	-140.82	143.735
2,620.00	2,593.96	-202.67	-261.22	5.61	2,633.45	2,629.31	-49.32	1,354.47	5.63	1,623.53	1,612.10	-148.81	141.987
2,711.00	2,683.71	-211.68	-273.26	5.74	2,722.82	2,718.46	-43.83	1,351.52	5.77	1,634.01	1,622.33	-148.48	139.965
2,802.00	2,773.53	-220.73	-284.71	5.88	2,812.25	2,807.67	-38.33	1,348.58	5.91	1,644.00	1,632.07	-146.71	137.807
2,894.00	2,864.51	-229.40	-295.27	6.02	2,902.82	2,898.02	-32.76	1,345.60	6.06	1,653.14	1,640.94	-147.37	135.449
2,985.00	2,954.56	-236.72	-306.10	6.16	2,992.56	2,987.54	-27.24	1,342.65	6.22	1,662.52	1,650.06	-157.89	133.503
3,076.00	3,044.53	-244.10	-317.58	6.30	3,082.23	3,077.00	-21.72	1,339.70	6.38	1,672.63	1,659.91	-151.30	131.408
3,168.00	3,135.20	-253.15	-330.19	6.45	3,172.54	3,167.09	-16.17	1,336.72	6.54	1,684.16	1,671.18	-152.50	129.730
3,260.00	3,225.56	-263.07	-344.41	6.61	3,262.54	3,256.86	-10.63	1,333.76	6.71	1,697.52	1,684.25	-153.76	127.957
3,353.00	3,316.86	-273.74	-358.47	6.79	3,353.43	3,347.53	-5.04	1,330.77	6.88	1,710.93	1,697.35	-148.79	125.977
3,444.00	3,406.34	-284.23	-371.32	6.96	3,442.46	3,436.35	0.43	1,327.84	7.06	1,723.27	1,709.37	-150.72	123.958
3,536.00	3,496.87	-294.48	-384.11	7.14	3,532.56	3,526.23	5.97	1,324.87	7.23	1,735.61	1,721.40	-150.84	122.103
3,626.00	3,585.70	-303.31	-395.48	7.31	3,621.01	3,614.46	11.41	1,321.96	7.41	1,746.44	1,731.89	-153.67	119.971
3,719.00	3,677.83	-310.96	-405.64	7.49	3,712.77	3,706.00	17.06	1,318.94	7.60	1,755.88	1,740.98	-153.21	117.889
3,811.00	3,769.12	-318.34	-414.30	7.66	3,803.67	3,796.68	22.65	1,315.95	7.79	1,763.90	1,748.66	-147.07	115.693
3,903.00	3,860.26	-326.39	-423.78	7.83	3,894.41	3,887.20	28.23	1,312.96	7.98	1,772.93	1,757.38	-153.59	114.008
3,994.00	3,950.18	-334.98	-434.88	8.01	3,983.94	3,976.51	33.74	1,310.02	8.17	1,783.77	1,767.87	-154.08	112.235
4,086.00	4,040.81	-344.27	-447.60	8.21	4,074.21	4,066.56	39.29	1,307.05	8.36	1,796.40	1,780.20	-157.06	110.891
4,177.00	4,130.25	-353.99	-461.30	8.40	4,163.28	4,155.41	44.77	1,304.11	8.56	1,810.20	1,793.64	-156.75	109.300
4,268.00	4,219.89	-363.34	-473.86	8.61	4,252.54	4,244.45	50.26	1,301.18	8.75	1,822.89	1,805.95	-155.20	107.657
4,361.00	4,311.75	-372.15	-485.38	8.81	4,344.01	4,335.70	55.88	1,298.17	8.95	1,834.47	1,817.16	-156.20	105.936
4,453.00	4,402.85	-379.93	-495.56	9.01	4,434.75	4,426.22	61.46	1,295.18	9.15	1,844.61	1,826.91	-156.02	104.258
4,545.00	4,494.14	-387.18	-504.32	9.20	4,525.66	4,516.91	67.05	1,292.19	9.36	1,853.31	1,835.23	-152.30	102.527
4,637.00	4,585.54	-394.54	-511.79	9.39	4,616.63	4,607.66	72.65	1,289.19	9.56	1,860.84	1,842.39	-147.01	100.858
4,729.00	4,677.01	-402.16	-518.13	9.57	4,707.61	4,698.42	78.24	1,286.20	9.77	1,867.43	1,848.60	-141.48	99.165

**Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1**

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

Offset Design: Sec. 33-T10N-R58W - Razor #33O-2809A - Customer Supplied Plan - Customer Supplied Plan

Scan Range: 0.00 to 13,179.06 usft. Measured Depth.

Scan Radius is 9,999.98 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
4,821.00	4,768.60	-408.63	-523.80	9.75	4,798.77	4,789.36	83.85	1,283.20	9.98	1,873.14	1,853.93	-151.76	97.527
4,910.00	4,857.39	-412.15	-528.75	9.91	4,887.29	4,877.66	89.30	1,280.29	10.18	1,877.47	1,857.90	-173.25	95.937
4,999.00	4,946.32	-413.18	-531.90	10.06	4,976.05	4,966.20	94.75	1,277.36	10.39	1,879.43	1,859.49	172.06	94.300
5,088.00	5,035.30	-413.28	-533.76	10.21	5,064.87	5,054.80	100.22	1,274.44	10.59	1,879.90	1,859.61	162.57	92.652
5,175.00	5,122.03	-407.44	-535.38	10.34	5,162.27	5,151.95	106.36	1,271.15	10.82	1,878.57	1,857.92	81.82	90.968
5,220.00	5,166.23	-399.21	-536.69	10.39	5,353.97	5,335.16	152.80	1,246.30	11.64	1,874.90	1,853.39	84.19	87.166
5,265.00	5,209.52	-387.10	-538.39	10.44	5,519.31	5,468.91	237.45	1,201.00	12.96	1,867.42	1,844.61	79.87	81.848
5,309.00	5,250.86	-372.07	-538.46	10.47	5,642.79	5,545.50	322.52	1,155.47	14.38	1,855.73	1,831.64	68.06	77.040
5,354.00	5,292.06	-354.13	-536.26	10.49	5,734.57	5,586.56	394.78	1,116.80	15.69	1,839.91	1,814.67	62.98	72.906
5,399.00	5,332.09	-333.71	-534.10	10.50	5,804.41	5,607.79	453.39	1,085.43	16.81	1,822.96	1,796.58	67.97	69.116
5,444.00	5,370.53	-310.36	-533.55	10.52	5,862.06	5,618.50	503.31	1,058.71	17.80	1,806.41	1,779.01	71.87	65.932
5,489.00	5,406.91	-283.89	-534.15	10.54	5,911.65	5,622.66	546.86	1,035.41	18.62	1,789.96	1,761.77	73.71	63.507
5,533.00	5,440.00	-254.93	-535.06	10.56	5,930.57	5,623.00	563.54	1,026.48	18.91	1,773.41	1,745.02	74.97	62.463
5,578.00	5,470.89	-222.24	-535.45	10.57	5,953.65	5,623.00	583.95	1,015.71	19.16	1,755.52	1,727.07	75.33	61.706
5,623.00	5,498.80	-186.96	-534.68	10.57	5,969.88	5,623.00	598.39	1,008.29	19.34	1,736.42	1,707.99	75.48	61.075
5,668.00	5,524.32	-149.92	-533.66	10.57	6,000.00	5,623.00	625.33	994.84	19.67	1,717.21	1,688.41	77.16	59.615
5,713.00	5,547.77	-111.52	-533.61	10.57	6,000.00	5,623.00	625.33	994.84	19.67	1,698.86	1,669.88	79.53	58.617
5,757.00	5,568.73	-72.84	-534.14	10.59	6,023.86	5,623.00	646.82	984.49	19.96	1,681.69	1,652.42	80.29	57.457
5,802.00	5,587.48	-31.96	-534.72	10.61	6,043.74	5,623.00	664.83	976.07	20.20	1,664.31	1,634.76	81.96	56.330
5,847.00	5,603.19	10.20	-535.38	10.64	6,064.44	5,623.00	683.68	967.50	20.46	1,647.13	1,617.29	83.22	55.200
5,891.00	5,616.19	52.23	-535.84	10.69	6,100.00	5,623.00	716.27	953.26	20.90	1,630.52	1,600.28	83.73	53.921
5,936.00	5,627.10	95.88	-536.14	10.75	6,100.00	5,623.00	716.27	953.26	20.90	1,613.45	1,583.10	85.24	53.149
5,979.00	5,634.47	138.23	-536.11	10.83	6,128.24	5,623.00	742.32	942.39	21.28	1,597.16	1,566.44	86.75	52.001
6,032.00	5,640.41	190.88	-535.23	10.95	6,154.75	5,623.00	766.94	932.53	21.65	1,576.78	1,545.70	87.40	50.723
6,105.00	5,644.89	263.70	-533.18	14.39	6,200.00	5,623.01	809.25	916.50	22.27	1,548.99	1,517.26	88.78	48.822
6,195.00	5,646.20	353.67	-531.47	14.45	6,238.46	5,623.01	845.51	903.67	22.83	1,517.14	1,484.56	89.41	46.556
6,284.00	5,646.62	442.67	-531.73	14.52	6,300.00	5,623.01	904.03	884.66	23.73	1,489.71	1,455.98	89.23	44.167
6,374.00	5,646.99	532.65	-533.44	14.60	6,334.67	5,623.01	937.26	874.78	24.25	1,465.27	1,430.66	89.39	42.333
6,463.00	5,646.43	621.57	-537.17	14.68	6,400.00	5,623.01	1,000.35	857.82	25.25	1,445.58	1,409.42	89.53	39.978
6,553.00	5,645.97	711.45	-541.76	14.78	6,434.34	5,623.01	1,033.73	849.77	25.79	1,428.44	1,391.52	89.40	38.687
6,642.00	5,644.43	800.41	-543.13	14.89	6,500.00	5,623.01	1,097.94	836.06	26.81	1,410.98	1,373.23	89.93	37.380
6,732.00	5,640.60	890.32	-542.27	15.00	6,535.20	5,623.01	1,132.55	829.62	27.37	1,393.13	1,354.32	90.14	35.887
6,819.00	5,637.37	977.26	-542.05	15.13	6,600.00	5,623.01	1,196.54	819.44	28.39	1,379.04	1,338.70	89.98	34.187
6,909.00	5,636.25	1,067.25	-541.81	15.29	6,636.76	5,623.00	1,232.99	814.63	28.97	1,366.53	1,325.19	89.80	33.055
6,998.00	5,635.81	1,156.24	-540.77	15.48	6,700.00	5,623.00	1,295.87	808.00	29.98	1,355.98	1,313.26	89.89	31.739
7,088.00	5,635.10	1,246.23	-540.55	15.73	6,740.86	5,623.00	1,336.61	804.82	30.62	1,348.41	1,304.14	89.86	30.463
7,148.88	5,634.81	1,307.08	-542.42	15.94	6,776.53	5,623.00	1,372.22	802.76	31.19	1,346.77	1,301.16	89.86	29.532
7,177.00	5,634.71	1,335.15	-544.01	16.05	6,800.00	5,623.00	1,395.67	801.77	31.56	1,347.15	1,300.82	89.86	29.078
7,267.00	5,634.10	1,425.02	-548.94	16.46	6,845.75	5,623.00	1,441.40	800.67	32.28	1,349.71	1,302.22	89.87	28.421
7,357.00	5,633.69	1,514.91	-553.27	16.92	6,919.23	5,623.00	1,514.89	800.53	33.38	1,353.80	1,304.47	89.91	27.447
7,446.00	5,633.63	1,603.88	-555.08	17.43	7,008.20	5,623.00	1,603.85	800.53	34.66	1,355.61	1,304.98	89.91	26.777
7,536.00	5,633.80	1,693.86	-553.26	17.97	7,098.18	5,622.99	1,693.83	800.53	35.98	1,353.80	1,301.40	89.89	25.835
7,625.00	5,633.77	1,782.78	-549.52	18.53	7,187.10	5,622.99	1,782.75	800.53	37.34	1,350.06	1,295.91	89.92	24.932
7,715.00	5,633.15	1,872.64	-544.66	19.13	7,276.97	5,622.99	1,872.62	800.54	38.75	1,345.20	1,288.91	89.95	23.899
7,804.00	5,632.58	1,961.42	-538.43	19.74	7,365.75	5,622.99	1,961.40	800.54	40.17	1,338.97	1,281.01	89.98	23.104
7,894.00	5,632.36	2,051.28	-533.76	20.38	7,455.61	5,622.99	2,051.26	800.54	41.63	1,334.30	1,273.25	89.96	21.854
7,983.00	5,632.33	2,140.25	-531.42	21.03	7,544.58	5,622.98	2,140.23	800.54	43.09	1,331.95	1,268.93	89.97	21.134
8,073.00	5,631.53	2,230.22	-529.75	21.71	7,634.55	5,622.98	2,230.21	800.54	44.59	1,330.29	1,264.62	90.00	20.256
8,080.62	5,631.41	2,237.84	-529.75	21.77	7,642.17	5,622.98	2,237.82	800.54	44.72	1,330.28	1,264.40	90.00	20.192
8,160.00	5,630.39	2,317.21	-530.39	22.39	7,721.54	5,622.98	2,317.20	800.54	46.05	1,330.93	1,262.87	90.04	19.555
8,250.00	5,629.66	2,407.19	-531.98	23.10	7,811.53	5,622.98	2,407.18	800.54	47.58	1,332.52	1,262.14	90.07	18.933
8,339.00	5,631.29	2,496.12	-534.84	23.81	7,900.46	5,622.98	2,496.11	800.54	49.10	1,335.38	1,262.47	90.12	18.314

**Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1**

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

Offset Design: Sec. 33-T10N-R58W - Razor #33O-2809A - Customer Supplied Plan - Customer Supplied Plan

Scan Range: 0.00 to 13,179.06 usft. Measured Depth.

Scan Radius is 9,999.98 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
8,427.00	5,634.25	2,584.03	-537.46	24.52	7,988.36	5,622.97	2,584.02	800.54	50.62	1,338.00	1,263.11	89.90	17.866
8,519.00	5,634.54	2,676.01	-536.48	25.26	8,080.34	5,622.97	2,676.00	800.54	52.23	1,337.03	1,260.34	89.91	17.434
8,611.00	5,632.12	2,767.93	-533.73	26.00	8,172.27	5,622.97	2,767.92	800.54	53.84	1,334.28	1,255.05	90.02	16.842
8,703.00	5,629.56	2,859.87	-531.44	26.74	8,264.21	5,622.97	2,859.86	800.55	55.46	1,331.99	1,250.37	90.11	16.319
8,762.11	5,628.82	2,918.96	-530.70	27.23	8,323.30	5,622.97	2,918.95	800.55	56.51	1,331.25	1,247.77	90.11	15.947
8,795.00	5,628.84	2,951.85	-530.93	27.50	8,356.19	5,622.97	2,951.85	800.55	57.09	1,331.48	1,246.99	90.12	15.758
8,887.00	5,629.56	3,043.83	-533.07	28.29	8,448.17	5,622.97	3,043.82	800.55	58.73	1,333.61	1,246.49	90.10	15.308
8,980.00	5,630.16	3,136.77	-536.18	29.08	8,541.11	5,622.97	3,136.77	800.55	60.39	1,336.73	1,247.11	90.06	14.916
9,071.00	5,630.87	3,227.71	-539.44	29.85	8,632.05	5,622.97	3,227.71	800.55	62.03	1,339.98	1,247.92	90.05	14.554
9,163.00	5,633.00	3,319.66	-541.53	30.61	8,724.00	5,622.96	3,319.65	800.55	63.69	1,342.08	1,247.82	89.95	14.238
9,253.00	5,635.48	3,409.62	-541.25	31.36	8,813.96	5,622.96	3,409.62	800.55	65.32	1,341.80	1,245.41	89.81	13.920
9,345.00	5,636.36	3,501.59	-539.43	32.13	8,905.94	5,622.96	3,501.59	800.55	66.99	1,339.98	1,241.25	89.79	13.572
9,436.00	5,635.97	3,592.58	-537.95	32.90	8,996.93	5,622.96	3,592.58	800.55	68.65	1,338.51	1,237.10	89.81	13.200
9,528.00	5,636.55	3,684.58	-537.56	33.69	9,088.92	5,622.96	3,684.58	800.55	70.34	1,338.12	1,234.15	89.78	12.870
9,620.00	5,638.86	3,776.54	-537.06	34.47	9,180.89	5,622.96	3,776.54	800.55	72.02	1,337.63	1,231.28	89.66	12.578
9,711.00	5,640.63	3,867.50	-535.13	35.24	9,271.85	5,622.96	3,867.50	800.55	73.69	1,335.71	1,227.19	89.59	12.308
9,803.00	5,640.74	3,959.44	-531.68	36.02	9,363.79	5,622.96	3,959.44	800.55	75.39	1,332.26	1,221.40	89.61	12.017
9,894.00	5,641.49	4,050.39	-528.95	36.81	9,454.74	5,622.96	4,050.39	800.55	77.07	1,329.53	1,215.82	89.55	11.692
9,985.00	5,643.18	4,141.36	-527.59	37.60	9,545.71	5,622.96	4,141.37	800.55	78.75	1,328.19	1,211.94	89.48	11.426
10,000.00	5,643.51	4,156.35	-527.34	37.68	9,560.71	5,622.96	4,156.36	800.55	79.03	1,327.94	1,211.43	89.45	11.397
10,029.66	5,644.79	4,185.97	-526.53	37.77	9,590.33	5,622.96	4,185.98	800.55	79.58	1,327.14	1,210.18	89.31	11.347
10,095.14	5,648.41	4,251.34	-525.36	37.96	9,655.70	5,622.96	4,251.35	800.55	80.79	1,326.02	1,207.21	89.27	11.161
10,100.00	5,648.67	4,256.19	-525.37	37.98	9,660.55	5,622.96	4,256.20	800.55	80.88	1,326.02	1,207.08	89.26	11.149
10,129.86	5,650.25	4,286.01	-525.65	38.07	9,690.36	5,622.96	4,286.02	800.55	81.43	1,326.33	1,206.59	89.24	11.077
10,160.81	5,651.74	4,316.92	-526.09	38.17	9,721.28	5,622.96	4,316.93	800.55	82.01	1,326.79	1,206.44	89.15	11.024
10,200.00	5,653.46	4,356.07	-526.51	38.29	9,760.43	5,622.96	4,356.08	800.55	82.74	1,327.24	1,206.03	89.08	10.950
10,300.00	5,657.85	4,455.97	-527.59	38.63	9,860.33	5,622.96	4,455.98	800.55	84.60	1,328.40	1,204.98	88.89	10.764
10,400.00	5,662.23	4,555.87	-528.66	38.99	9,960.22	5,622.96	4,555.88	800.54	86.46	1,329.56	1,203.93	88.70	10.583
10,500.00	5,666.62	4,655.77	-529.74	39.37	10,060.12	5,622.96	4,655.78	800.54	88.32	1,330.75	1,202.86	88.51	10.406
10,600.00	5,671.00	4,755.66	-530.82	39.77	10,160.02	5,622.96	4,755.68	800.54	90.19	1,331.95	1,201.79	88.33	10.234
10,700.00	5,675.39	4,855.56	-531.89	40.19	10,259.92	5,622.96	4,855.58	800.54	92.06	1,333.16	1,200.71	88.14	10.066
10,800.00	5,679.77	4,955.46	-532.97	40.63	10,359.82	5,622.96	4,955.47	800.54	93.93	1,334.38	1,199.63	87.95	9.903
10,900.00	5,684.16	5,055.36	-534.04	41.08	10,459.72	5,622.96	5,055.37	800.54	95.81	1,335.62	1,198.54	87.77	9.743
10,919.26	5,685.00	5,074.60	-534.25	41.17	10,478.96	5,622.96	5,074.62	800.54	96.17	1,335.86	1,198.33	87.73	9.713
10,975.26	5,687.01	5,130.56	-534.54	41.44	10,534.93	5,622.96	5,130.58	800.54	97.22	1,336.23	1,197.51	87.62	9.633
11,000.00	5,687.70	5,155.29	-534.53	41.56	10,559.66	5,622.96	5,155.31	800.54	97.68	1,336.25	1,196.95	87.59	9.593
11,100.00	5,690.48	5,255.25	-534.48	42.05	10,659.62	5,622.96	5,255.27	800.54	99.56	1,336.32	1,194.65	87.47	9.433
11,200.00	5,693.27	5,355.21	-534.44	42.56	10,759.58	5,622.96	5,355.23	800.54	101.45	1,336.40	1,192.34	87.35	9.277
11,300.00	5,696.05	5,455.17	-534.39	43.09	10,859.54	5,622.96	5,455.20	800.53	103.33	1,336.49	1,190.03	87.23	9.125
11,400.00	5,698.83	5,555.14	-534.35	43.63	10,959.50	5,622.97	5,555.16	800.53	105.21	1,336.58	1,187.70	87.11	8.977
11,500.00	5,701.62	5,655.10	-534.30	44.18	11,059.47	5,622.97	5,655.12	800.53	107.10	1,336.68	1,185.36	86.99	8.833
11,600.00	5,704.40	5,755.06	-534.26	44.76	11,159.43	5,622.97	5,755.08	800.53	108.99	1,336.78	1,183.01	86.87	8.693
11,621.40	5,705.00	5,776.45	-534.25	44.88	11,180.82	5,622.97	5,776.47	800.53	109.39	1,336.80	1,182.51	86.85	8.664
11,703.35	5,706.11	5,858.39	-534.23	45.36	11,262.76	5,622.97	5,858.41	800.53	110.94	1,336.84	1,180.53	86.80	8.552
11,800.00	5,706.04	5,955.04	-534.23	45.94	11,359.41	5,622.97	5,955.07	800.53	112.77	1,336.84	1,178.12	86.80	8.422
11,900.00	5,705.96	6,055.04	-534.23	46.55	11,459.41	5,622.97	6,055.07	800.52	114.66	1,336.84	1,175.60	86.81	8.291
12,000.00	5,705.89	6,155.04	-534.24	47.18	11,559.42	5,622.97	6,155.07	800.52	116.56	1,336.83	1,173.07	86.81	8.164
12,100.00	5,705.81	6,255.04	-534.24	47.81	11,659.42	5,622.98	6,255.07	800.52	118.45	1,336.82	1,170.53	86.81	8.039
12,200.00	5,705.74	6,355.04	-534.24	48.46	11,759.42	5,622.98	6,355.07	800.52	120.35	1,336.82	1,167.98	86.82	7.918
12,300.00	5,705.66	6,455.04	-534.24	49.12	11,859.42	5,622.98	6,455.07	800.51	122.24	1,336.81	1,165.41	86.82	7.799
12,400.00	5,705.59	6,555.04	-534.24	49.79	11,959.42	5,622.98	6,555.07	800.51	124.14	1,336.81	1,162.84	86.82	7.684
12,500.00	5,705.51	6,655.04	-534.24	50.47	12,059.42	5,622.98	6,655.07	800.51	126.04	1,336.80	1,160.25	86.83	7.572



**Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1**

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

Offset Design: Sec. 33-T10N-R58W - Razor #33O-2809A - Customer Supplied Plan - Customer Supplied Plan

Scan Range: 0.00 to 13,179.06 usft. Measured Depth.

Scan Radius is 9,999.98 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
12,600.00	5,705.44	6,755.04	-534.24	51.16	12,159.42	5,622.99	6,755.08	800.51	127.94	1,336.80	1,157.65	86.83	7.462
12,700.00	5,705.36	6,855.04	-534.24	51.86	12,259.42	5,622.99	6,855.08	800.50	129.84	1,336.79	1,155.04	86.83	7.355
12,800.00	5,705.29	6,955.04	-534.25	52.57	12,359.42	5,622.99	6,955.08	800.50	131.74	1,336.79	1,152.42	86.84	7.251
12,900.00	5,705.21	7,055.04	-534.25	53.28	12,459.43	5,622.99	7,055.08	800.50	133.65	1,336.78	1,149.79	86.84	7.149
13,000.00	5,705.13	7,155.04	-534.25	54.01	12,559.43	5,623.00	7,155.08	800.50	135.55	1,336.77	1,147.16	86.84	7.050
13,100.00	5,705.06	7,255.04	-534.25	54.74	12,659.43	5,623.00	7,255.08	800.49	137.45	1,336.77	1,144.51	86.85	6.953
13,179.06	5,705.00	7,334.10	-534.25	55.33	12,738.49	5,623.00	7,334.14	800.49	138.96	1,336.76	1,142.41	86.85	6.878

**Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1**

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

Offset Design: Sec. 33-T10N-R58W (Razor #33N Pad) - Razor #33N-2807 - Plan C - Rev C0

Scan Range: 0.00 to 13,179.06 usft. Measured Depth.

Scan Radius is 9,999.98 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
140.00	140.00	0.06	-0.83	3.29	140.00	140.00	-12.39	59.26	3.30	61.36	53.81	-172.21	8.126
231.00	230.99	0.08	-1.69	3.31	230.99	230.99	-12.39	59.26	3.31	62.22	54.63	-166.91	8.206
323.00	322.99	0.31	-2.59	3.33	322.99	322.99	-12.39	59.26	3.34	63.14	55.50	169.04	8.268
416.00	415.97	-0.06	-4.30	3.37	415.97	415.97	-12.39	59.26	3.39	64.74	57.03	-140.90	8.391
508.00	507.90	-1.97	-7.39	3.42	507.90	507.90	-12.39	59.26	3.44	67.46	59.65	-137.54	8.631
600.00	599.70	-5.52	-12.14	3.48	599.37	599.37	-12.81	59.33	3.50	71.84	63.90	-135.12	9.055
692.00	691.35	-10.46	-18.52	3.55	690.50	690.44	-15.79	59.84	3.56	78.54	70.48	-139.18	9.745
784.00	782.81	-16.17	-26.58	3.64	781.44	781.19	-21.60	60.83	3.64	87.59	79.39	-142.02	10.671
874.00	871.96	-23.21	-36.68	3.74	870.32	869.68	-29.78	62.22	3.72	99.14	90.77	-140.32	11.844
965.00	961.77	-31.86	-48.48	3.86	960.34	959.27	-38.52	63.70	3.80	112.41	103.84	-139.02	13.122
1,057.00	1,052.50	-40.89	-60.78	3.99	1,051.30	1,049.78	-47.35	65.20	3.91	126.18	117.40	-141.04	14.372
1,149.00	1,143.20	-49.95	-73.25	4.12	1,142.24	1,140.27	-56.17	66.70	4.02	140.12	131.11	-140.40	15.549
1,241.00	1,233.88	-59.28	-85.68	4.26	1,233.17	1,230.77	-65.00	68.20	4.15	154.02	144.76	-140.14	16.636
1,332.00	1,323.60	-68.54	-97.71	4.39	1,323.16	1,320.32	-73.73	69.69	4.28	167.51	158.00	-139.69	17.616
1,423.00	1,413.42	-77.25	-109.47	4.53	1,413.19	1,409.91	-82.47	71.18	4.41	180.76	170.99	-142.95	18.503
1,484.00	1,473.69	-82.79	-117.06	4.62	1,473.58	1,470.01	-88.33	72.17	4.51	189.35	179.40	-140.55	19.016
1,611.00	1,599.26	-94.33	-132.18	4.74	1,599.41	1,595.23	-100.55	74.25	4.64	206.56	196.68	-140.51	20.900
1,704.00	1,691.13	-102.26	-144.25	4.77	1,691.40	1,686.77	-109.48	75.77	4.66	220.18	210.28	-148.02	22.239
1,796.00	1,781.89	-110.16	-157.00	4.80	1,782.29	1,777.22	-118.30	77.27	4.69	234.46	224.50	-143.62	23.541
1,887.00	1,871.50	-120.44	-169.02	4.85	1,872.26	1,866.75	-127.03	78.75	4.72	247.90	237.86	-131.51	24.693
1,980.00	1,962.98	-132.49	-180.64	4.92	1,964.27	1,958.32	-135.96	80.27	4.77	260.97	250.83	-132.88	25.740
2,071.00	2,052.62	-143.69	-191.59	4.99	2,054.39	2,047.99	-144.71	81.76	4.83	273.39	263.14	-133.76	26.667
2,163.00	2,143.29	-153.97	-203.29	5.07	2,145.42	2,138.58	-153.54	83.26	4.90	286.59	276.22	-142.53	27.627
2,255.00	2,234.11	-162.55	-215.27	5.16	2,236.42	2,229.15	-162.37	84.76	4.98	300.07	289.54	-145.66	28.498
2,347.00	2,324.89	-171.79	-226.97	5.26	2,327.47	2,319.75	-171.21	86.26	5.06	313.27	302.58	-137.43	29.292
2,438.00	2,414.52	-182.40	-238.54	5.37	2,417.51	2,409.35	-179.95	87.75	5.16	326.34	315.46	-136.99	30.005
2,531.00	2,506.19	-193.15	-249.91	5.49	2,509.59	2,500.99	-188.89	89.27	5.26	339.24	328.16	-136.35	30.605
2,620.00	2,593.96	-202.67	-261.22	5.61	2,597.66	2,588.63	-197.44	90.72	5.37	352.02	340.74	-144.00	31.210
2,711.00	2,683.71	-211.68	-273.26	5.74	2,687.65	2,678.18	-206.17	92.21	5.48	365.55	354.05	-143.20	31.767
2,802.00	2,773.53	-220.73	-284.71	5.88	2,777.73	2,767.82	-214.91	93.70	5.61	378.49	366.74	-140.98	32.206
2,894.00	2,864.51	-229.40	-295.27	6.02	2,868.93	2,858.58	-223.76	95.20	5.74	390.56	378.54	-141.16	32.504
2,985.00	2,954.56	-236.72	-306.10	6.16	2,959.08	2,948.29	-232.51	96.69	5.87	402.85	390.60	-151.05	32.867
3,076.00	3,044.53	-244.10	-317.58	6.30	3,049.14	3,037.91	-241.25	98.17	6.01	415.82	403.29	-143.83	33.194
3,168.00	3,135.20	-253.15	-330.19	6.45	3,140.04	3,128.37	-250.08	99.67	6.16	429.93	417.15	-144.53	33.637
3,260.00	3,225.56	-263.07	-344.41	6.61	3,230.68	3,218.57	-258.88	101.17	6.31	445.66	432.60	-145.46	34.124
3,353.00	3,316.86	-273.74	-358.47	6.79	3,322.35	3,309.80	-267.77	102.68	6.47	461.25	447.88	-140.21	34.497
3,444.00	3,406.34	-284.23	-371.32	6.96	3,412.20	3,399.21	-276.49	104.17	6.63	475.60	461.92	-141.89	34.759
3,536.00	3,496.87	-294.48	-384.11	7.14	3,503.07	3,489.64	-285.31	105.67	6.79	489.92	475.93	-141.67	35.011
3,626.00	3,585.70	-303.31	-395.48	7.31	3,592.14	3,578.28	-293.96	107.14	6.96	502.76	488.44	-144.16	35.103
3,719.00	3,677.83	-310.96	-405.64	7.49	3,684.40	3,670.08	-302.91	108.66	7.13	514.42	499.76	-143.16	35.094
3,811.00	3,769.12	-318.34	-414.30	7.66	3,775.82	3,761.06	-311.78	110.17	7.30	524.57	509.57	-136.48	34.957
3,903.00	3,860.26	-326.39	-423.78	7.83	3,867.14	3,851.94	-320.65	111.67	7.48	535.55	520.23	-142.43	34.959
3,994.00	3,950.18	-334.98	-434.88	8.01	3,957.27	3,941.63	-329.40	113.16	7.66	548.14	532.48	-142.51	35.002
4,086.00	4,040.81	-344.27	-447.60	8.21	4,048.16	4,032.08	-338.22	114.66	7.84	562.36	546.38	-145.05	35.194
4,177.00	4,130.25	-353.99	-461.30	8.40	4,137.87	4,121.36	-346.93	116.14	8.02	577.56	561.22	-144.45	35.350
4,268.00	4,219.89	-363.34	-473.86	8.61	4,227.78	4,210.83	-355.65	117.63	8.21	591.61	574.90	-142.59	35.408
4,361.00	4,311.75	-372.15	-485.38	8.81	4,319.86	4,302.46	-364.59	119.15	8.40	604.64	587.55	-143.22	35.382
4,453.00	4,402.85	-379.93	-495.56	9.01	4,411.11	4,393.26	-373.45	120.65	8.59	616.32	598.85	-142.59	35.288
4,545.00	4,494.14	-387.18	-504.32	9.20	4,502.52	4,484.23	-382.32	122.16	8.78	626.58	608.73	-138.40	35.105
4,637.00	4,585.54	-394.54	-511.79	9.39	4,594.08	4,575.34	-391.20	123.67	8.98	635.55	617.33	-132.62	34.871
4,729.00	4,677.01	-402.16	-518.13	9.57	4,689.23	4,670.17	-398.88	124.98	9.11	643.15	624.61	-126.76	34.689
4,821.00	4,768.60	-408.63	-523.80	9.75	4,784.45	4,765.28	-403.44	125.75	9.24	649.58	630.74	-136.90	34.483

**Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1**

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

Offset Design: Sec. 33-T10N-R58W (Razor #33N Pad) - Razor #33N-2807 - Plan C - Rev C0

Scan Range: 0.00 to 13,179.06 usft. Measured Depth.

Scan Radius is 9,999.98 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
4,910.00	4,857.39	-412.15	-528.75	9.91	4,876.58	4,857.39	-404.89	126.00	9.38	654.79	635.66	-158.37	34.220
4,999.00	4,946.32	-413.18	-531.90	10.06	4,965.51	4,946.32	-404.89	126.00	9.50	657.95	638.54	-172.98	33.891
5,088.00	5,035.30	-413.28	-533.76	10.21	5,054.49	5,035.30	-404.89	126.00	9.62	659.81	640.12	177.69	33.514
5,175.00	5,122.03	-407.44	-535.38	10.34	5,141.21	5,122.03	-404.89	126.00	9.74	661.39	641.44	97.17	33.161
5,220.00	5,166.23	-399.21	-536.69	10.39	5,185.80	5,166.56	-402.99	126.00	9.80	662.70	642.65	99.96	33.043
5,265.00	5,209.52	-387.10	-538.39	10.44	5,230.92	5,211.29	-397.20	126.00	9.85	664.46	644.31	97.04	32.964
5,309.00	5,250.86	-372.07	-538.46	10.47	5,275.66	5,254.98	-387.66	126.00	9.90	664.65	644.40	86.96	32.813
5,354.00	5,292.06	-354.13	-536.26	10.49	5,322.00	5,299.21	-373.86	126.00	9.94	662.59	642.26	83.70	32.595
5,399.00	5,332.09	-333.71	-534.10	10.50	5,368.87	5,342.51	-355.97	125.99	9.98	660.55	640.16	89.04	32.396
5,433.84	5,362.01	-315.88	-533.53	10.52	5,405.44	5,375.08	-339.35	125.99	10.00	660.07	639.65	92.11	32.319
5,444.00	5,370.53	-310.36	-533.55	10.52	5,416.14	5,384.38	-334.06	125.99	10.01	660.11	639.68	92.87	32.309
5,489.00	5,406.91	-283.89	-534.15	10.54	5,463.69	5,424.31	-308.28	125.99	10.04	660.82	640.35	94.11	32.284
5,533.00	5,440.00	-254.93	-535.06	10.56	5,510.41	5,461.10	-279.50	125.99	10.08	661.84	641.33	94.02	32.268
5,578.00	5,470.89	-222.24	-535.45	10.57	5,558.44	5,496.08	-246.61	125.99	10.11	662.36	641.80	92.88	32.208
5,623.00	5,498.80	-186.96	-534.68	10.57	5,606.74	5,528.04	-210.43	125.98	10.16	661.73	641.11	91.95	32.085
5,668.00	5,524.32	-149.92	-533.66	10.57	5,655.27	5,556.65	-171.24	125.98	10.21	660.78	640.09	92.82	31.947
5,693.75	5,537.98	-128.10	-533.49	10.57	5,683.09	5,571.37	-147.63	125.98	10.24	660.60	639.87	93.39	31.867
5,713.00	5,547.77	-111.52	-533.61	10.57	5,703.88	5,581.52	-129.51	125.98	10.27	660.70	639.93	93.73	31.815
5,757.00	5,568.73	-72.84	-534.14	10.59	5,751.20	5,601.90	-86.81	125.97	10.34	661.09	640.21	93.44	31.664
5,802.00	5,587.48	-31.96	-534.72	10.61	5,799.23	5,618.54	-41.77	125.97	10.42	661.49	640.47	93.15	31.476
5,847.00	5,603.19	10.20	-535.38	10.64	5,846.82	5,630.86	4.17	125.97	10.52	661.95	640.77	92.73	31.254
5,891.00	5,616.19	52.23	-535.84	10.69	5,892.71	5,638.72	49.38	125.96	10.63	662.19	640.83	92.03	31.001
5,936.00	5,627.10	95.88	-536.14	10.75	5,938.83	5,642.59	95.32	125.96	10.76	662.28	640.71	91.42	30.699
5,979.00	5,634.47	138.23	-536.11	10.83	5,981.80	5,643.00	138.28	125.95	12.01	662.12	640.37	90.66	30.436
6,032.00	5,640.41	190.88	-535.23	10.95	6,034.46	5,643.00	190.94	125.95	13.73	661.19	639.25	90.10	30.133
6,105.00	5,644.89	263.70	-533.18	14.39	6,107.28	5,643.00	263.76	125.94	13.77	659.13	636.98	89.78	29.763
6,195.00	5,646.20	353.67	-531.47	14.45	6,197.25	5,643.00	353.73	125.94	13.83	657.41	634.93	89.72	29.245
6,224.09	5,646.26	382.76	-531.39	14.48	6,226.33	5,643.00	382.81	125.94	13.84	657.33	634.71	89.72	29.054
6,284.00	5,646.62	442.67	-531.73	14.52	6,286.24	5,643.00	442.72	125.93	13.88	657.67	634.74	89.69	28.680
6,374.00	5,646.99	532.65	-533.44	14.60	6,376.23	5,643.00	532.71	125.92	13.94	659.37	635.86	89.65	28.042
6,463.00	5,646.43	621.57	-537.17	14.68	6,465.14	5,643.00	621.62	125.92	13.99	663.10	638.84	89.67	27.335
6,553.00	5,645.97	711.45	-541.76	14.78	6,555.02	5,643.00	711.50	125.91	14.05	667.68	642.69	89.75	26.725
6,642.00	5,644.43	800.41	-543.13	14.89	6,643.98	5,643.00	800.46	125.90	14.11	669.03	643.36	89.91	26.064
6,732.00	5,640.60	890.32	-542.27	15.00	6,733.89	5,643.00	890.37	125.89	14.17	668.17	641.55	90.22	25.106
6,814.02	5,637.49	972.27	-542.05	15.12	6,815.85	5,643.00	972.33	125.89	14.23	667.96	640.42	90.47	24.260
6,819.00	5,637.37	977.26	-542.05	15.13	6,820.83	5,643.00	977.31	125.89	14.24	667.96	640.37	90.48	24.210
6,909.00	5,636.25	1,067.25	-541.81	15.29	6,910.82	5,643.00	1,067.30	125.88	14.55	667.73	639.11	90.58	23.331
6,998.00	5,635.81	1,156.24	-540.77	15.48	6,999.81	5,643.00	1,156.29	125.87	15.14	666.68	637.00	90.63	22.459
7,050.06	5,635.35	1,208.30	-540.30	15.62	7,051.87	5,643.00	1,208.35	125.87	15.50	666.21	635.82	90.66	21.917
7,088.00	5,635.10	1,246.23	-540.55	15.73	7,089.81	5,643.00	1,246.29	125.87	15.76	666.46	635.55	90.67	21.556
7,177.00	5,634.71	1,335.15	-544.01	16.05	7,178.73	5,643.00	1,335.21	125.86	16.41	669.92	637.69	90.70	20.781
7,267.00	5,634.10	1,425.02	-548.94	16.46	7,268.59	5,643.00	1,425.07	125.85	17.08	674.85	641.38	90.73	20.164
7,357.00	5,633.69	1,514.91	-553.27	16.92	7,358.48	5,643.00	1,514.97	125.84	17.77	679.18	644.40	90.79	19.533
7,446.00	5,633.63	1,603.88	-555.08	17.43	7,447.45	5,643.00	1,603.93	125.84	18.46	680.98	645.01	90.79	18.932
7,536.00	5,633.80	1,693.86	-553.26	17.97	7,537.43	5,643.00	1,693.91	125.83	19.19	679.16	641.88	90.77	18.222
7,625.00	5,633.77	1,782.78	-549.52	18.53	7,626.35	5,643.00	1,782.83	125.82	19.91	675.41	636.84	90.81	17.512
7,715.00	5,633.15	1,872.64	-544.66	19.13	7,716.22	5,643.00	1,872.70	125.81	20.66	670.55	630.58	90.86	16.775
7,804.00	5,632.58	1,961.42	-538.43	19.74	7,804.99	5,643.00	1,961.47	125.81	21.40	664.32	623.05	90.93	16.096
7,894.00	5,632.36	2,051.28	-533.76	20.38	7,894.85	5,643.00	2,051.33	125.80	22.17	659.65	616.73	90.92	15.371
7,983.00	5,632.33	2,140.25	-531.42	21.03	7,983.82	5,643.00	2,140.30	125.79	22.93	657.30	612.97	90.93	14.830
8,073.00	5,631.53	2,230.22	-529.75	21.71	8,073.79	5,643.00	2,230.28	125.79	23.71	655.64	609.76	91.00	14.290
8,079.71	5,631.43	2,236.93	-529.75	21.76	8,080.51	5,643.00	2,236.99	125.79	23.77	655.63	609.64	91.01	14.254

**Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1**

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

Offset Design: Sec. 33-T10N-R58W (Razor #33N Pad) - Razor #33N-2807 - Plan C - Rev C0

Scan Range: 0.00 to 13,179.06 usft. Measured Depth.

Scan Radius is 9,999.98 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
8,160.00	5,630.39	2,317.21	-530.39	22.39	8,160.78	5,643.00	2,317.26	125.78	24.47	656.29	608.93	91.09	13.856
8,250.00	5,629.66	2,407.19	-531.98	23.10	8,250.77	5,643.00	2,407.25	125.77	25.27	657.88	609.00	91.16	13.458
8,339.00	5,631.29	2,496.12	-534.84	23.81	8,339.69	5,643.00	2,496.17	125.76	26.06	660.71	610.28	91.13	13.103
8,427.00	5,634.25	2,584.03	-537.46	24.52	8,427.60	5,643.00	2,584.08	125.76	26.85	663.27	611.37	90.78	12.779
8,519.00	5,634.54	2,676.01	-536.48	25.26	8,519.58	5,643.00	2,676.06	125.75	27.68	662.29	608.92	90.77	12.409
8,611.00	5,632.12	2,767.93	-533.73	26.00	8,611.50	5,643.00	2,767.98	125.74	28.51	659.56	604.58	90.99	11.995
8,703.00	5,629.56	2,859.87	-531.44	26.74	8,703.44	5,643.00	2,859.92	125.73	29.34	657.32	600.75	91.20	11.620
8,762.12	5,628.82	2,918.98	-530.70	27.23	8,762.55	5,643.00	2,919.03	125.73	29.88	656.58	598.93	91.24	11.388
8,795.00	5,628.84	2,951.85	-530.93	27.50	8,795.43	5,643.00	2,951.91	125.73	30.18	656.81	598.56	91.24	11.276
8,887.00	5,629.56	3,043.83	-533.07	28.29	8,887.40	5,643.00	3,043.88	125.72	31.03	658.92	599.03	91.19	11.001
8,980.00	5,630.16	3,136.77	-536.18	29.08	8,980.34	5,643.00	3,136.82	125.71	31.89	662.02	600.47	91.12	10.757
9,071.00	5,630.87	3,227.71	-539.44	29.85	9,071.28	5,643.00	3,227.76	125.71	32.73	665.25	602.09	91.07	10.533
9,163.00	5,633.00	3,319.66	-541.53	30.61	9,163.23	5,643.00	3,319.71	125.70	33.58	667.30	602.54	90.87	10.303
9,253.00	5,635.48	3,409.62	-541.25	31.36	9,253.19	5,643.00	3,409.67	125.69	34.42	666.98	600.67	90.63	10.059
9,345.00	5,636.36	3,501.59	-539.43	32.13	9,345.17	5,643.00	3,501.65	125.68	35.27	665.14	597.23	90.58	9.794
9,436.00	5,635.97	3,592.58	-537.95	32.90	9,436.15	5,643.00	3,592.63	125.68	36.12	663.66	594.07	90.61	9.537
9,528.00	5,636.55	3,684.58	-537.56	33.69	9,528.15	5,643.00	3,684.63	125.67	36.99	663.26	592.01	90.56	9.308
9,620.00	5,638.86	3,776.54	-537.06	34.47	9,620.12	5,643.00	3,776.60	125.66	37.85	662.73	589.85	90.34	9.093
9,711.00	5,640.63	3,867.50	-535.13	35.24	9,711.08	5,643.00	3,867.56	125.65	38.71	660.79	586.34	90.19	8.876
9,803.00	5,640.74	3,959.44	-531.68	36.02	9,803.01	5,643.00	3,959.49	125.65	39.57	657.33	581.27	90.21	8.642
9,894.00	5,641.49	4,050.39	-528.95	36.81	9,893.96	5,643.00	4,050.44	125.64	40.43	654.59	576.78	90.11	8.413
9,985.00	5,643.18	4,141.36	-527.59	37.60	9,984.93	5,643.00	4,141.41	125.63	41.29	653.22	573.76	89.97	8.220
10,000.00	5,643.51	4,156.35	-527.34	37.68	9,999.93	5,643.00	4,156.41	125.63	41.44	652.97	573.30	89.92	8.196
10,029.66	5,644.79	4,185.97	-526.53	37.77	10,029.55	5,643.00	4,186.03	125.63	41.72	652.16	572.17	89.73	8.153
10,095.75	5,648.44	4,251.95	-525.36	37.97	10,095.52	5,643.00	4,252.00	125.62	42.34	651.01	570.10	89.52	8.046
10,100.00	5,648.67	4,256.19	-525.37	37.98	10,099.77	5,643.00	4,256.25	125.62	42.38	651.01	570.05	89.51	8.041
10,129.86	5,650.25	4,286.01	-525.65	38.07	10,129.58	5,643.00	4,286.06	125.62	42.67	651.31	569.96	89.41	8.006
10,160.81	5,651.74	4,316.92	-526.09	38.17	10,160.50	5,643.00	4,316.98	125.62	42.96	651.77	570.03	89.26	7.974
10,200.00	5,653.46	4,356.07	-526.51	38.29	10,199.64	5,643.00	4,356.12	125.61	43.33	652.21	569.98	89.11	7.931
10,300.00	5,657.85	4,455.97	-527.59	38.63	10,299.54	5,643.00	4,456.02	125.61	44.28	653.36	569.85	88.73	7.824
10,400.00	5,662.23	4,555.87	-528.66	38.99	10,399.44	5,643.00	4,555.92	125.60	45.23	654.54	569.74	88.34	7.718
10,500.00	5,666.62	4,655.77	-529.74	39.37	10,499.34	5,643.00	4,655.82	125.59	46.19	655.75	569.63	87.96	7.614
10,600.00	5,671.00	4,755.66	-530.82	39.77	10,599.24	5,643.00	4,755.72	125.58	47.14	656.99	569.53	87.59	7.512
10,700.00	5,675.39	4,855.56	-531.89	40.19	10,699.13	5,643.00	4,855.61	125.57	48.10	658.26	569.45	87.21	7.412
10,800.00	5,679.77	4,955.46	-532.97	40.63	10,799.03	5,643.00	4,955.51	125.57	49.05	659.56	569.38	86.83	7.314
10,900.00	5,684.16	5,055.36	-534.04	41.08	10,898.93	5,643.00	5,055.41	125.56	50.01	660.88	569.32	86.46	7.217
10,919.26	5,685.00	5,074.60	-534.25	41.17	10,918.17	5,643.00	5,074.65	125.56	50.19	661.14	569.31	86.39	7.199
10,975.26	5,687.01	5,130.56	-534.54	41.44	10,974.14	5,643.00	5,130.62	125.55	50.73	661.56	568.95	86.19	7.144
11,000.00	5,687.70	5,155.29	-534.53	41.56	10,998.86	5,643.00	5,155.34	125.55	50.97	661.59	568.64	86.13	7.118
11,100.00	5,690.48	5,255.25	-534.48	42.05	11,098.83	5,643.00	5,255.31	125.54	51.93	661.73	567.35	85.89	7.011
11,200.00	5,693.27	5,355.21	-534.44	42.56	11,198.79	5,643.00	5,355.27	125.53	52.89	661.88	566.06	85.65	6.908
11,300.00	5,696.05	5,455.17	-534.39	43.09	11,298.75	5,643.00	5,455.23	125.52	53.85	662.05	564.77	85.40	6.806
11,400.00	5,698.83	5,555.14	-534.35	43.63	11,398.71	5,643.00	5,555.19	125.52	54.81	662.22	563.47	85.16	6.706
11,500.00	5,701.62	5,655.10	-534.30	44.18	11,498.67	5,643.00	5,655.15	125.51	55.77	662.41	562.18	84.92	6.609
11,600.00	5,704.40	5,755.06	-534.26	44.76	11,598.63	5,643.00	5,755.11	125.50	56.73	662.61	560.88	84.68	6.513
11,621.40	5,705.00	5,776.45	-534.25	44.88	11,620.02	5,643.00	5,776.50	125.50	56.94	662.66	560.60	84.63	6.493
11,703.35	5,706.11	5,858.39	-534.23	45.36	11,701.96	5,643.00	5,858.44	125.49	57.73	662.74	559.43	84.54	6.415
11,800.00	5,706.04	5,955.04	-534.23	45.94	11,798.61	5,643.00	5,955.09	125.48	58.66	662.72	557.91	84.54	6.323
11,900.00	5,705.96	6,055.04	-534.23	46.55	11,898.61	5,643.00	6,055.09	125.48	59.63	662.71	556.33	84.55	6.229
12,000.00	5,705.89	6,155.04	-534.24	47.18	11,998.61	5,643.00	6,155.09	125.47	60.59	662.69	554.73	84.55	6.138
12,100.00	5,705.81	6,255.04	-534.24	47.81	12,098.61	5,643.00	6,255.09	125.46	61.56	662.68	553.11	84.56	6.048
12,200.00	5,705.74	6,355.04	-534.24	48.46	12,198.61	5,643.00	6,355.09	125.45	62.52	662.67	551.49	84.57	5.960

**Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1**

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

Offset Design: Sec. 33-T10N-R58W (Razor #33N Pad) - Razor #33N-2807 - Plan C - Rev C0

Scan Range: 0.00 to 13,179.06 usft. Measured Depth.

Scan Radius is 9,999.98 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
12,300.00	5,705.66	6,455.04	-534.24	49.12	12,298.61	5,643.00	6,455.09	125.44	63.49	662.65	549.85	84.57	5.875
12,400.00	5,705.59	6,555.04	-534.24	49.79	12,398.61	5,643.00	6,555.09	125.44	64.46	662.64	548.21	84.58	5.791
12,500.00	5,705.51	6,655.04	-534.24	50.47	12,498.61	5,643.00	6,655.09	125.43	65.43	662.62	546.55	84.59	5.709
12,600.00	5,705.44	6,755.04	-534.24	51.16	12,598.61	5,643.00	6,755.09	125.42	66.40	662.61	544.88	84.59	5.628
12,700.00	5,705.36	6,855.04	-534.24	51.86	12,698.61	5,643.00	6,855.09	125.41	67.36	662.60	543.20	84.60	5.550
12,800.00	5,705.29	6,955.04	-534.25	52.57	12,798.61	5,643.00	6,955.09	125.40	68.33	662.58	541.52	84.61	5.473
12,900.00	5,705.21	7,055.04	-534.25	53.28	12,898.61	5,643.00	7,055.09	125.40	69.30	662.57	539.82	84.61	5.398
13,000.00	5,705.13	7,155.04	-534.25	54.01	12,998.61	5,643.00	7,155.09	125.39	70.27	662.56	538.12	84.62	5.324
13,100.00	5,705.06	7,255.04	-534.25	54.74	13,098.61	5,643.00	7,255.09	125.38	71.24	662.54	536.40	84.63	5.253
13,179.06	5,705.00	7,334.10	-534.25	55.33	13,177.67	5,643.00	7,334.15	125.37	72.01	662.53	535.04	84.63	5.197

**Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1**

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

Offset Design: Sec. 21-T10N-R58W - Razor #21C-2805A - Existing Well - Customer Supplied

Scan Range: 0.00 to 13,179.06 usft. Measured Depth.

Scan Radius is 9,999.98 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
140.00	140.00	0.06	-0.83	3.29	12,805.00	5,762.45	7,545.10	-537.62	130.19	9,352.41	9,323.75	82.51	326.400
231.00	230.99	0.08	-1.69	3.31	12,805.00	5,762.45	7,545.10	-537.62	130.19	9,299.11	9,270.21	87.75	321.761
323.00	322.99	0.31	-2.59	3.33	12,805.00	5,762.45	7,545.10	-537.62	130.19	9,245.67	9,216.98	63.87	322.345
416.00	415.97	-0.06	-4.30	3.37	12,805.00	5,762.45	7,545.10	-537.62	130.19	9,192.71	9,164.58	115.06	326.762
508.00	507.90	-1.97	-7.39	3.42	12,805.00	5,762.45	7,545.10	-537.62	130.19	9,142.18	9,114.69	121.19	332.623
600.00	599.70	-5.52	-12.14	3.48	12,805.00	5,762.45	7,545.10	-537.62	130.19	9,093.63	9,066.59	127.25	336.326
692.00	691.35	-10.46	-18.52	3.55	12,805.00	5,762.45	7,545.10	-537.62	130.19	9,046.91	9,020.24	125.67	339.215
784.00	782.81	-16.17	-26.58	3.64	12,805.00	5,762.45	7,545.10	-537.62	130.19	9,001.54	8,975.16	123.71	341.241
874.00	871.96	-23.21	-36.68	3.74	12,805.00	5,762.45	7,545.10	-537.62	130.19	8,959.12	8,932.91	125.87	341.767
965.00	961.77	-31.86	-48.48	3.86	12,805.00	5,762.45	7,545.10	-537.62	130.19	8,918.34	8,891.97	127.65	338.113
1,057.00	1,052.50	-40.89	-60.78	3.99	12,805.00	5,762.45	7,545.10	-537.62	130.19	8,878.13	8,851.71	126.21	336.131
1,149.00	1,143.20	-49.95	-73.25	4.12	12,805.00	5,762.45	7,545.10	-537.62	130.19	8,838.72	8,812.14	127.23	332.498
1,241.00	1,233.88	-59.28	-85.68	4.26	12,805.00	5,762.45	7,545.10	-537.62	130.19	8,800.34	8,773.59	127.86	328.983
1,332.00	1,323.60	-68.54	-97.71	4.39	12,805.00	5,762.45	7,545.10	-537.62	130.19	8,763.20	8,736.27	128.55	325.470
1,423.00	1,413.42	-77.25	-109.47	4.53	12,805.00	5,762.45	7,545.10	-537.62	130.19	8,726.33	8,699.41	125.48	324.133
1,484.00	1,473.69	-82.79	-117.06	4.62	12,805.00	5,762.45	7,545.10	-537.62	130.19	8,701.78	8,674.64	127.64	320.616
1,611.00	1,599.26	-94.33	-132.18	4.74	12,805.00	5,762.45	7,545.10	-537.62	130.19	8,651.82	8,624.76	127.58	319.708
1,704.00	1,691.13	-102.26	-144.25	4.77	12,805.00	5,762.45	7,545.10	-537.62	130.19	8,615.78	8,589.07	120.58	322.607
1,796.00	1,781.89	-110.16	-157.00	4.80	12,805.00	5,762.45	7,545.10	-537.62	130.19	8,581.03	8,554.10	124.61	318.726
1,887.00	1,871.50	-120.44	-169.02	4.85	12,805.00	5,762.45	7,545.10	-537.62	130.19	8,549.80	8,522.14	136.68	309.133
1,980.00	1,962.98	-132.49	-180.64	4.92	12,805.00	5,762.45	7,545.10	-537.62	130.19	8,520.23	8,492.61	136.02	308.431
2,071.00	2,052.62	-143.69	-191.59	4.99	12,805.00	5,762.45	7,545.10	-537.62	130.19	8,491.62	8,463.96	135.69	307.019
2,163.00	2,143.29	-153.97	-203.29	5.07	12,805.00	5,762.45	7,545.10	-537.62	130.19	8,462.60	8,435.30	127.68	309.982
2,255.00	2,234.11	-162.55	-215.27	5.16	12,805.00	5,762.45	7,545.10	-537.62	130.19	8,432.85	8,405.60	124.46	309.472
2,347.00	2,324.89	-171.79	-226.97	5.26	12,805.00	5,762.45	7,545.10	-537.62	130.19	8,404.64	8,376.91	132.56	303.124
2,438.00	2,414.52	-182.40	-238.54	5.37	12,805.00	5,762.45	7,545.10	-537.62	130.19	8,379.05	8,351.20	133.28	300.839
2,531.00	2,506.19	-193.15	-249.91	5.49	12,805.00	5,762.45	7,545.10	-537.62	130.19	8,353.74	8,325.76	134.12	298.587
2,620.00	2,593.96	-202.67	-261.22	5.61	12,805.00	5,762.45	7,545.10	-537.62	130.19	8,329.68	8,301.93	126.99	300.163
2,711.00	2,683.71	-211.68	-273.26	5.74	12,805.00	5,762.45	7,545.10	-537.62	130.19	8,305.30	8,277.41	127.72	297.765
2,802.00	2,773.53	-220.73	-284.71	5.88	12,805.00	5,762.45	7,545.10	-537.62	130.19	8,281.88	8,253.78	129.83	294.718
2,894.00	2,864.51	-229.40	-295.27	6.02	12,805.00	5,762.45	7,545.10	-537.62	130.19	8,258.68	8,230.49	129.46	292.971
2,985.00	2,954.56	-236.72	-306.10	6.16	12,805.00	5,762.45	7,545.10	-537.62	130.19	8,235.46	8,207.48	119.81	294.423
3,076.00	3,044.53	-244.10	-317.58	6.30	12,805.00	5,762.45	7,545.10	-537.62	130.19	8,213.24	8,184.89	126.57	289.712
3,168.00	3,135.20	-253.15	-330.19	6.45	12,805.00	5,762.45	7,545.10	-537.62	130.19	8,193.32	8,164.76	126.10	286.885
3,260.00	3,225.56	-263.07	-344.41	6.61	12,805.00	5,762.45	7,545.10	-537.62	130.19	8,175.27	8,146.59	125.36	284.995
3,353.00	3,316.86	-273.74	-358.47	6.79	12,805.00	5,762.45	7,545.10	-537.62	130.19	8,158.68	8,129.58	130.56	280.341
3,444.00	3,406.34	-284.23	-371.32	6.96	12,805.00	5,762.45	7,545.10	-537.62	130.19	8,143.47	8,114.36	129.11	279.743
3,536.00	3,496.87	-294.48	-384.11	7.14	12,805.00	5,762.45	7,545.10	-537.62	130.19	8,128.73	8,099.40	129.46	277.211
3,626.00	3,585.70	-303.31	-395.48	7.31	12,805.00	5,762.45	7,545.10	-537.62	130.19	8,114.10	8,084.89	126.94	277.783
3,719.00	3,677.83	-310.96	-405.64	7.49	12,805.00	5,762.45	7,545.10	-537.62	130.19	8,098.51	8,069.12	127.74	275.573
3,811.00	3,769.12	-318.34	-414.30	7.66	12,805.00	5,762.45	7,545.10	-537.62	130.19	8,083.92	8,054.27	134.01	272.711
3,903.00	3,860.26	-326.39	-423.78	7.83	12,805.00	5,762.45	7,545.10	-537.62	130.19	8,071.02	8,041.20	128.19	270.622
3,994.00	3,950.18	-334.98	-434.88	8.01	12,805.00	5,762.45	7,545.10	-537.62	130.19	8,059.91	8,029.96	128.07	269.051
4,086.00	4,040.81	-344.27	-447.60	8.21	12,805.00	5,762.45	7,545.10	-537.62	130.19	8,050.35	8,020.08	125.64	265.953
4,177.00	4,130.25	-353.99	-461.30	8.40	12,805.00	5,762.45	7,545.10	-537.62	130.19	8,042.46	8,012.07	126.31	264.610
4,268.00	4,219.89	-363.34	-473.86	8.61	12,805.00	5,762.45	7,545.10	-537.62	130.19	8,035.21	8,004.63	128.18	262.778
4,361.00	4,311.75	-372.15	-485.38	8.81	12,805.00	5,762.45	7,545.10	-537.62	130.19	8,028.09	7,997.47	127.57	262.177
4,453.00	4,402.85	-379.93	-495.56	9.01	12,805.00	5,762.45	7,545.10	-537.62	130.19	8,021.15	7,990.39	128.08	260.823
4,545.00	4,494.14	-387.18	-504.32	9.20	12,805.00	5,762.45	7,545.10	-537.62	130.19	8,014.70	7,983.79	132.07	259.222
4,637.00	4,585.54	-394.54	-511.79	9.39	12,805.00	5,762.45	7,545.10	-537.62	130.19	8,009.42	7,978.23	137.63	256.818
4,729.00	4,677.01	-402.16	-518.13	9.57	12,805.00	5,762.45	7,545.10	-537.62	130.19	8,005.44	7,974.08	143.48	255.304
4,821.00	4,768.60	-408.63	-523.80	9.75	12,805.00	5,762.45	7,545.10	-537.62	130.19	8,001.36	7,970.03	133.62	255.441

**Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1**

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

Offset Design: Sec. 21-T10N-R58W - Razor #21C-2805A - Existing Well - Customer Supplied

Scan Range: 0.00 to 13,179.06 usft. Measured Depth.

Scan Radius is 9,999.98 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
4,910.00	4,857.39	-412.15	-528.75	9.91	12,805.00	5,762.45	7,545.10	-537.62	130.19	7,995.67	7,964.39	112.42	255.655
4,999.00	4,946.32	-413.18	-531.90	10.06	12,805.00	5,762.45	7,545.10	-537.62	130.19	7,988.47	7,957.02	97.81	253.999
5,088.00	5,035.30	-413.28	-533.76	10.21	12,805.00	5,762.45	7,545.10	-537.62	130.19	7,981.34	7,949.73	88.48	252.547
5,175.00	5,122.03	-407.44	-535.38	10.34	12,805.00	5,762.45	7,545.10	-537.62	130.19	7,969.40	7,937.06	7.58	246.396
5,220.00	5,166.23	-399.21	-536.69	10.39	12,805.00	5,762.45	7,545.10	-537.62	130.19	7,958.43	7,924.83	10.33	236.829
5,265.00	5,209.52	-387.10	-538.39	10.44	12,805.00	5,762.45	7,545.10	-537.62	130.19	7,943.88	7,908.75	6.93	226.105
5,309.00	5,250.86	-372.07	-538.46	10.47	12,805.00	5,762.45	7,545.10	-537.62	130.19	7,926.74	7,889.14	-5.25	210.863
5,354.00	5,292.06	-354.13	-536.26	10.49	12,805.00	5,762.45	7,545.10	-537.62	130.19	7,906.90	7,867.45	-10.09	200.439
5,399.00	5,332.09	-333.71	-534.10	10.50	12,805.00	5,762.45	7,545.10	-537.62	130.19	7,884.84	7,844.10	-4.16	193.553
5,444.00	5,370.53	-310.36	-533.55	10.52	12,805.00	5,762.45	7,545.10	-537.62	130.19	7,860.09	7,817.91	0.69	186.352
5,489.00	5,406.91	-283.89	-534.15	10.54	12,805.00	5,762.45	7,545.10	-537.62	130.19	7,832.47	7,788.10	2.51	176.536
5,533.00	5,440.00	-254.93	-535.06	10.56	12,805.00	5,762.45	7,545.10	-537.62	130.19	7,802.60	7,756.00	2.36	167.439
5,578.00	5,470.89	-222.24	-535.45	10.57	12,805.00	5,762.45	7,545.10	-537.62	130.19	7,769.19	7,719.96	-0.39	157.839
5,623.00	5,498.80	-186.96	-534.68	10.57	12,805.00	5,762.45	7,545.10	-537.62	130.19	7,733.36	7,681.80	-3.85	149.987
5,668.00	5,524.32	-149.92	-533.66	10.57	12,805.00	5,762.45	7,545.10	-537.62	130.19	7,695.89	7,643.64	-1.92	147.276
5,713.00	5,547.77	-111.52	-533.61	10.57	12,805.00	5,762.45	7,545.10	-537.62	130.19	7,657.18	7,604.39	1.62	145.034
5,757.00	5,568.73	-72.84	-534.14	10.59	12,805.00	5,762.45	7,545.10	-537.62	130.19	7,618.28	7,564.57	1.58	141.833
5,802.00	5,587.48	-31.96	-534.72	10.61	12,805.00	5,762.45	7,545.10	-537.62	130.19	7,577.24	7,522.24	2.32	137.759
5,847.00	5,603.19	10.20	-535.38	10.64	12,805.00	5,762.45	7,545.10	-537.62	130.19	7,534.99	7,479.03	2.88	134.644
5,891.00	5,616.19	52.23	-535.84	10.69	12,805.00	5,762.45	7,545.10	-537.62	130.19	7,492.91	7,436.52	1.17	132.861
5,936.00	5,627.10	95.88	-536.14	10.75	12,805.00	5,762.45	7,545.10	-537.62	130.19	7,449.24	7,392.14	2.18	130.472
5,979.00	5,634.47	138.23	-536.11	10.83	12,805.00	5,762.45	7,545.10	-537.62	130.19	7,406.88	7,348.28	-4.31	126.411
6,032.00	5,640.41	190.88	-535.23	10.95	12,805.00	5,762.45	7,545.10	-537.62	130.19	7,354.22	7,287.53	-14.42	110.270
6,105.00	5,644.89	263.70	-533.18	14.39	12,805.00	5,762.45	7,545.10	-537.62	130.19	7,281.40	7,168.38	-48.31	64.425
6,195.00	5,646.20	353.67	-531.47	14.45	12,805.00	5,762.45	7,545.10	-537.62	130.19	7,191.44	7,051.98	-79.23	51.570
6,284.00	5,646.62	442.67	-531.73	14.52	12,805.00	5,762.45	7,545.10	-537.62	130.19	7,102.44	6,992.27	46.48	64.470
6,374.00	5,646.99	532.65	-533.44	14.60	12,805.00	5,762.45	7,545.10	-537.62	130.19	7,012.46	6,870.77	90.16	49.493
6,463.00	5,646.43	621.57	-537.17	14.68	12,805.00	5,762.45	7,545.10	-537.62	130.19	6,923.54	6,783.64	100.30	49.491
6,553.00	5,645.97	711.45	-541.76	14.78	12,805.00	5,762.45	7,545.10	-537.62	130.19	6,833.66	6,691.56	87.60	48.092
6,642.00	5,644.43	800.41	-543.13	14.89	12,805.00	5,762.45	7,545.10	-537.62	130.19	6,744.70	6,670.61	-159.39	91.033
6,732.00	5,640.60	890.32	-542.27	15.00	12,805.00	5,762.45	7,545.10	-537.62	130.19	6,654.78	6,595.62	-174.76	112.483
6,819.00	5,637.37	977.26	-542.05	15.13	12,805.00	5,762.45	7,545.10	-537.62	130.19	6,567.85	6,509.54	178.07	112.637
6,909.00	5,636.25	1,067.25	-541.81	15.29	12,805.00	5,762.45	7,545.10	-537.62	130.19	6,477.86	6,334.66	-97.19	45.236
6,998.00	5,635.81	1,156.24	-540.77	15.48	12,805.00	5,762.45	7,545.10	-537.62	130.19	6,388.87	6,261.59	-121.29	50.199
7,088.00	5,635.10	1,246.23	-540.55	15.73	12,805.00	5,762.45	7,545.10	-537.62	130.19	6,298.87	6,165.54	115.82	47.241
7,177.00	5,634.71	1,335.15	-544.01	16.05	12,805.00	5,762.45	7,545.10	-537.62	130.19	6,209.95	6,064.83	93.49	42.792
7,267.00	5,634.10	1,425.02	-548.94	16.46	12,805.00	5,762.45	7,545.10	-537.62	130.19	6,120.10	5,977.33	103.58	42.867
7,357.00	5,633.69	1,514.91	-553.27	16.92	12,805.00	5,762.45	7,545.10	-537.62	130.19	6,030.22	5,883.54	89.84	41.113
7,446.00	5,633.63	1,603.88	-555.08	17.43	12,805.00	5,762.45	7,545.10	-537.62	130.19	5,941.25	5,805.86	-115.73	43.880
7,536.00	5,633.80	1,693.86	-553.26	17.97	12,805.00	5,762.45	7,545.10	-537.62	130.19	5,851.27	5,705.18	-79.11	40.052
7,625.00	5,633.77	1,782.78	-549.52	18.53	12,805.00	5,762.45	7,545.10	-537.62	130.19	5,762.34	5,614.95	-98.58	39.096
7,715.00	5,633.15	1,872.64	-544.66	19.13	12,805.00	5,762.45	7,545.10	-537.62	130.19	5,672.47	5,524.53	-98.91	38.343
7,804.00	5,632.58	1,961.42	-538.43	19.74	12,805.00	5,762.45	7,545.10	-537.62	130.19	5,583.69	5,434.21	-94.81	37.355
7,894.00	5,632.36	2,051.28	-533.76	20.38	12,805.00	5,762.45	7,545.10	-537.62	130.19	5,493.83	5,342.96	-91.18	36.414
7,983.00	5,632.33	2,140.25	-531.42	21.03	12,805.00	5,762.45	7,545.10	-537.62	130.19	5,404.87	5,253.74	-94.71	35.763
8,073.00	5,631.53	2,230.22	-529.75	21.71	12,805.00	5,762.45	7,545.10	-537.62	130.19	5,314.89	5,249.97	-170.30	81.867
8,160.00	5,630.39	2,317.21	-530.39	22.39	12,805.00	5,762.45	7,545.10	-537.62	130.19	5,227.91	5,102.81	128.92	41.793
8,250.00	5,629.66	2,407.19	-531.98	23.10	12,805.00	5,762.45	7,545.10	-537.62	130.19	5,137.92	4,995.32	113.98	36.031
8,339.00	5,631.29	2,496.12	-534.84	23.81	12,805.00	5,762.45	7,545.10	-537.62	130.19	5,048.99	4,928.03	47.70	41.742
8,427.00	5,634.25	2,584.03	-537.46	24.52	12,805.00	5,762.45	7,545.10	-537.62	130.19	4,961.08	4,865.38	31.06	51.840
8,519.00	5,634.54	2,676.01	-536.48	25.26	12,805.00	5,762.45	7,545.10	-537.62	130.19	4,869.10	4,729.31	-118.75	34.831
8,611.00	5,632.12	2,767.93	-533.73	26.00	12,805.00	5,762.45	7,545.10	-537.62	130.19	4,777.18	4,673.72	-144.81	46.175

**Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1**

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

Offset Design: Sec. 21-T10N-R58W - Razor #21C-2805A - Existing Well - Customer Supplied

Scan Range: 0.00 to 13,179.06 usft. Measured Depth.

Scan Radius is 9,999.98 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
8,703.00	5,629.56	2,859.87	-531.44	26.74	12,805.00	5,762.45	7,545.10	-537.62	130.19	4,685.25	4,560.36	-131.46	37.513
8,795.00	5,628.84	2,951.85	-530.93	27.50	12,805.00	5,762.45	7,545.10	-537.62	130.19	4,593.27	4,438.77	76.73	29.731
8,887.00	5,629.56	3,043.83	-533.07	28.29	12,805.00	5,762.45	7,545.10	-537.62	130.19	4,501.29	4,346.66	75.83	29.109
8,980.00	5,630.16	3,136.77	-536.18	29.08	12,805.00	5,762.45	7,545.10	-537.62	130.19	4,408.34	4,248.83	89.41	27.637
9,071.00	5,630.87	3,227.71	-539.44	29.85	12,805.00	5,762.45	7,545.10	-537.62	130.19	4,317.40	4,162.44	73.96	27.860
9,163.00	5,633.00	3,319.66	-541.53	30.61	12,805.00	5,762.45	7,545.10	-537.62	130.19	4,225.45	4,149.12	16.68	55.355
9,253.00	5,635.48	3,409.62	-541.25	31.36	12,805.00	5,762.45	7,545.10	-537.62	130.19	4,135.49	4,030.35	-34.01	39.335
9,345.00	5,636.36	3,501.59	-539.43	32.13	12,805.00	5,762.45	7,545.10	-537.62	130.19	4,043.51	3,882.15	-98.31	25.059
9,436.00	5,635.97	3,592.58	-537.95	32.90	12,805.00	5,762.45	7,545.10	-537.62	130.19	3,952.52	3,824.51	-132.62	30.876
9,528.00	5,636.55	3,684.58	-537.66	33.69	12,805.00	5,762.45	7,545.10	-537.62	130.19	3,860.53	3,795.66	-2.32	59.513
9,620.00	5,638.86	3,776.54	-537.06	34.47	12,805.00	5,762.45	7,545.10	-537.62	130.19	3,768.56	3,687.75	-18.39	46.633
9,711.00	5,640.63	3,867.50	-535.13	35.24	12,805.00	5,762.45	7,545.10	-537.62	130.19	3,677.60	3,514.97	-77.47	22.613
9,803.00	5,640.74	3,959.44	-531.68	36.02	12,805.00	5,762.45	7,545.10	-537.62	130.19	3,585.67	3,419.77	-96.04	21.613
9,894.00	5,641.49	4,050.39	-528.95	36.81	12,805.00	5,762.45	7,545.10	-537.62	130.19	3,494.73	3,372.52	-41.87	28.596
9,985.00	5,643.18	4,141.36	-527.59	37.60	12,805.00	5,762.45	7,545.10	-537.62	130.19	3,403.76	3,277.94	-43.69	27.053
10,000.00	5,643.51	4,156.35	-527.34	37.68	12,805.00	5,762.45	7,545.10	-537.62	130.19	3,388.77	3,273.66	-37.41	29.441
10,029.66	5,644.79	4,185.97	-526.53	37.77	12,805.00	5,762.45	7,545.10	-537.62	130.19	3,359.15	3,251.29	-33.36	31.143
10,100.00	5,648.67	4,256.19	-525.37	37.98	12,805.00	5,762.45	7,545.10	-537.62	130.19	3,288.94	3,222.75	-1.91	49.686
10,129.86	5,650.25	4,286.01	-525.65	38.07	12,805.00	5,762.45	7,545.10	-537.62	130.19	3,259.13	3,183.43	13.96	43.052
10,160.81	5,651.74	4,316.92	-526.09	38.17	12,805.00	5,762.45	7,545.10	-537.62	130.19	3,228.22	3,158.33	8.63	46.189
10,200.00	5,653.46	4,356.07	-526.51	38.29	12,805.00	5,762.45	7,545.10	-537.62	130.19	3,189.08	3,119.17	8.63	45.621
10,300.00	5,657.85	4,455.97	-527.59	38.63	12,805.00	5,762.45	7,545.10	-537.62	130.19	3,089.20	3,019.26	8.63	44.169
10,400.00	5,662.23	4,555.87	-528.66	38.99	12,805.00	5,762.45	7,545.10	-537.62	130.19	2,989.33	2,919.34	8.63	42.714
10,500.00	5,666.62	4,655.77	-529.74	39.37	12,805.00	5,762.45	7,545.10	-537.62	130.19	2,889.47	2,819.43	8.63	41.255
10,600.00	5,671.00	4,755.66	-530.82	39.77	12,805.00	5,762.45	7,545.10	-537.62	130.19	2,789.62	2,719.52	8.63	39.794
10,700.00	5,675.39	4,855.56	-531.89	40.19	12,805.00	5,762.45	7,545.10	-537.62	130.19	2,689.78	2,619.61	8.63	38.332
10,800.00	5,679.77	4,955.46	-532.97	40.63	12,805.00	5,762.45	7,545.10	-537.62	130.19	2,589.95	2,519.70	8.63	36.868
10,900.00	5,684.16	5,055.36	-534.04	41.08	12,805.00	5,762.45	7,545.10	-537.62	130.19	2,490.14	2,419.80	8.63	35.403
10,919.26	5,685.00	5,074.60	-534.25	41.17	12,805.00	5,762.45	7,545.10	-537.62	130.19	2,470.91	2,400.56	8.63	35.121
10,975.26	5,687.01	5,130.56	-534.54	41.44	12,805.00	5,762.45	7,545.10	-537.62	130.19	2,415.00	2,348.36	-2.09	36.243
11,000.00	5,687.70	5,155.29	-534.53	41.56	12,805.00	5,762.45	7,545.10	-537.62	130.19	2,390.29	2,323.63	-2.09	35.862
11,100.00	5,690.48	5,255.25	-534.48	42.05	12,805.00	5,762.45	7,545.10	-537.62	130.19	2,290.41	2,223.67	-2.09	34.321
11,200.00	5,693.27	5,355.21	-534.44	42.56	12,805.00	5,762.45	7,545.10	-537.62	130.19	2,190.54	2,123.71	-2.09	32.780
11,300.00	5,696.05	5,455.17	-534.39	43.09	12,805.00	5,762.45	7,545.10	-537.62	130.19	2,090.68	2,023.76	-2.09	31.240
11,400.00	5,698.83	5,555.14	-534.35	43.63	12,805.00	5,762.45	7,545.10	-537.62	130.19	1,990.84	1,923.81	-2.09	29.702
11,500.00	5,701.62	5,655.10	-534.30	44.18	12,805.00	5,762.45	7,545.10	-537.62	130.19	1,891.01	1,823.87	-2.09	28.166
11,600.00	5,704.40	5,755.06	-534.26	44.76	12,805.00	5,762.45	7,545.10	-537.62	130.19	1,791.20	1,723.94	-2.09	26.632
11,621.40	5,705.00	5,776.45	-534.25	44.88	12,805.00	5,762.45	7,545.10	-537.62	130.19	1,769.84	1,702.56	-2.09	26.305
11,703.35	5,706.11	5,858.39	-534.23	45.36	12,805.00	5,762.45	7,545.10	-537.62	130.19	1,688.01	1,620.35	-2.98	24.950
11,800.00	5,706.04	5,955.04	-534.23	45.94	12,805.00	5,762.45	7,545.10	-537.62	130.19	1,591.43	1,523.65	-2.98	23.478
11,900.00	5,705.96	6,055.04	-534.23	46.55	12,805.00	5,762.45	7,545.10	-537.62	130.19	1,491.52	1,423.60	-2.98	21.959
12,000.00	5,705.89	6,155.04	-534.24	47.18	12,805.00	5,762.45	7,545.10	-537.62	130.19	1,391.62	1,323.55	-2.98	20.444
12,100.00	5,705.81	6,255.04	-534.24	47.81	12,805.00	5,762.45	7,545.10	-537.62	130.19	1,291.74	1,223.52	-2.98	18.935
12,200.00	5,705.74	6,355.04	-534.24	48.46	12,805.00	5,762.45	7,545.10	-537.62	130.19	1,191.87	1,123.50	-2.98	17.431
12,300.00	5,705.66	6,455.04	-534.24	49.12	12,805.00	5,762.45	7,545.10	-537.62	130.19	1,092.04	1,023.50	-2.98	15.933
12,400.00	5,705.59	6,555.04	-534.24	49.79	12,805.00	5,762.45	7,545.10	-537.62	130.19	992.23	923.52	-2.98	14.441
12,500.00	5,705.51	6,655.04	-534.24	50.47	12,805.00	5,762.45	7,545.10	-537.62	130.19	892.47	823.58	-2.98	12.956
12,600.00	5,705.44	6,755.04	-534.24	51.16	12,805.00	5,762.45	7,545.10	-537.62	130.19	792.76	723.70	-2.98	11.479
12,700.00	5,705.36	6,855.04	-534.24	51.86	12,805.00	5,762.45	7,545.10	-537.62	130.19	693.15	623.90	-2.98	10.010
12,800.00	5,705.29	6,955.04	-534.25	52.57	12,805.00	5,762.45	7,545.10	-537.62	130.19	593.66	524.22	-2.98	8.550
12,900.00	5,705.21	7,055.04	-534.25	53.28	12,805.00	5,762.45	7,545.10	-537.62	130.19	494.38	424.74	-2.98	7.100
13,000.00	5,705.13	7,155.04	-534.25	54.01	12,805.00	5,762.45	7,545.10	-537.62	130.19	395.45	325.62	-2.98	5.663





Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)  
Offset Design: Sec. 21-T10N-R58W - Razor #21C-2805A - Existing Well - Customer Supplied  
Scan Range: 0.00 to 13,179.06 usft. Measured Depth.  
Scan Radius is 9,999.98 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)					
13,100.00	5,705.06	7,255.04	-534.25	54.74	12,805.00	5,762.45	7,545.10	-537.62	130.19	297.26	227.22	-2.98	4.244
13,179.06	5,705.00	7,334.10	-534.25	55.33	12,805.00	5,762.45	7,545.10	-537.62	130.19	220.77	150.57	-2.98	3.145

**Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1**

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

Offset Design: Sec. 21-T10N-R58W - Razor #21C-2807A - Existing Well - Customer Supplied

Scan Range: 0.00 to 13,179.06 usft. Measured Depth.

Scan Radius is 9,999.98 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
140.00	140.00	0.06	-0.83	3.29	12,788.00	5,757.76	7,565.99	130.37	130.38	9,352.04	9,332.84	87.58	487.020
231.00	230.99	0.08	-1.69	3.31	12,788.00	5,757.76	7,565.99	130.37	130.38	9,298.85	9,279.82	92.81	488.771
323.00	322.99	0.31	-2.59	3.33	12,788.00	5,757.76	7,565.99	130.37	130.38	9,245.51	9,226.27	68.95	480.445
416.00	415.97	-0.06	-4.30	3.37	12,788.00	5,757.76	7,565.99	130.37	130.38	9,192.73	9,172.87	120.08	462.867
508.00	507.90	-1.97	-7.39	3.42	12,788.00	5,757.76	7,565.99	130.37	130.38	9,142.47	9,121.70	126.15	440.183
600.00	599.70	-5.52	-12.14	3.48	12,788.00	5,757.76	7,565.99	130.37	130.38	9,094.33	9,072.60	132.14	418.574
692.00	691.35	-10.46	-18.52	3.55	12,788.00	5,757.76	7,565.99	130.37	130.38	9,048.14	9,025.48	130.53	399.233
784.00	782.81	-16.17	-26.58	3.64	12,788.00	5,757.76	7,565.99	130.37	130.38	9,003.44	8,979.80	128.53	380.819
874.00	871.96	-23.21	-36.68	3.74	12,788.00	5,757.76	7,565.99	130.37	130.38	8,961.84	8,936.72	130.61	356.643
965.00	961.77	-31.86	-48.48	3.86	12,788.00	5,757.76	7,565.99	130.37	130.38	8,922.03	8,896.58	132.35	350.601
1,057.00	1,052.50	-40.89	-60.78	3.99	12,788.00	5,757.76	7,565.99	130.37	130.38	8,882.83	8,857.14	130.92	345.800
1,149.00	1,143.20	-49.95	-73.25	4.12	12,788.00	5,757.76	7,565.99	130.37	130.38	8,844.46	8,818.61	131.93	342.257
1,241.00	1,233.88	-59.28	-85.68	4.26	12,788.00	5,757.76	7,565.99	130.37	130.38	8,807.11	8,781.21	132.55	339.994
1,332.00	1,323.60	-68.54	-97.71	4.39	12,788.00	5,757.76	7,565.99	130.37	130.38	8,770.98	8,745.12	133.26	339.177
1,423.00	1,413.42	-77.25	-109.47	4.53	12,788.00	5,757.76	7,565.99	130.37	130.38	8,735.12	8,709.18	130.21	336.746
1,484.00	1,473.69	-82.79	-117.06	4.62	12,788.00	5,757.76	7,565.99	130.37	130.38	8,711.22	8,685.51	132.37	338.759
1,611.00	1,599.26	-94.33	-132.18	4.74	12,788.00	5,757.76	7,565.99	130.37	130.38	8,662.58	8,637.06	132.32	339.442
1,704.00	1,691.13	-102.26	-144.25	4.77	12,788.00	5,757.76	7,565.99	130.37	130.38	8,627.58	8,601.12	125.31	325.970
1,796.00	1,781.89	-110.16	-157.00	4.80	12,788.00	5,757.76	7,565.99	130.37	130.38	8,593.94	8,567.72	129.33	327.739
1,887.00	1,871.50	-120.44	-169.02	4.85	12,788.00	5,757.76	7,565.99	130.37	130.38	8,563.77	8,537.64	141.34	327.820
1,980.00	1,962.98	-132.49	-180.64	4.92	12,788.00	5,757.76	7,565.99	130.37	130.38	8,535.24	8,509.34	140.70	329.536
2,071.00	2,052.62	-143.69	-191.59	4.99	12,788.00	5,757.76	7,565.99	130.37	130.38	8,507.62	8,481.70	140.37	328.288
2,163.00	2,143.29	-153.97	-203.29	5.07	12,788.00	5,757.76	7,565.99	130.37	130.38	8,479.64	8,453.28	132.38	321.696
2,255.00	2,234.11	-162.55	-215.27	5.16	12,788.00	5,757.76	7,565.99	130.37	130.38	8,450.97	8,424.79	129.20	322.820
2,347.00	2,324.89	-171.79	-226.97	5.26	12,788.00	5,757.76	7,565.99	130.37	130.38	8,423.83	8,397.45	137.24	319.423
2,438.00	2,414.52	-182.40	-238.54	5.37	12,788.00	5,757.76	7,565.99	130.37	130.38	8,399.29	8,372.90	137.96	318.208
2,531.00	2,506.19	-193.15	-249.91	5.49	12,788.00	5,757.76	7,565.99	130.37	130.38	8,375.03	8,348.71	138.81	318.237
2,620.00	2,593.96	-202.67	-261.22	5.61	12,788.00	5,757.76	7,565.99	130.37	130.38	8,352.01	8,325.22	131.69	311.741
2,711.00	2,683.71	-211.68	-273.26	5.74	12,788.00	5,757.76	7,565.99	130.37	130.38	8,328.74	8,301.98	132.42	311.239
2,802.00	2,773.53	-220.73	-284.71	5.88	12,788.00	5,757.76	7,565.99	130.37	130.38	8,306.37	8,279.65	134.54	310.872
2,894.00	2,864.51	-229.40	-295.27	6.02	12,788.00	5,757.76	7,565.99	130.37	130.38	8,284.16	8,257.68	134.20	312.827
2,985.00	2,954.56	-236.72	-306.10	6.16	12,788.00	5,757.76	7,565.99	130.37	130.38	8,261.96	8,234.81	124.55	304.347
3,076.00	3,044.53	-244.10	-317.58	6.30	12,788.00	5,757.76	7,565.99	130.37	130.38	8,240.81	8,213.74	131.29	304.399
3,168.00	3,135.20	-253.15	-330.19	6.45	12,788.00	5,757.76	7,565.99	130.37	130.38	8,222.06	8,194.27	130.78	295.789
3,260.00	3,225.56	-263.07	-344.41	6.61	12,788.00	5,757.76	7,565.99	130.37	130.38	8,205.31	8,177.29	130.03	292.835
3,353.00	3,316.86	-273.74	-358.47	6.79	12,788.00	5,757.76	7,565.99	130.37	130.38	8,190.00	8,161.98	135.23	292.275
3,444.00	3,406.34	-284.23	-371.32	6.96	12,788.00	5,757.76	7,565.99	130.37	130.38	8,175.98	8,147.96	133.80	291.776
3,536.00	3,496.87	-294.48	-384.11	7.14	12,788.00	5,757.76	7,565.99	130.37	130.38	8,162.42	8,134.17	134.15	288.920
3,626.00	3,585.70	-303.31	-395.48	7.31	12,788.00	5,757.76	7,565.99	130.37	130.38	8,148.86	8,120.93	131.67	291.792
3,719.00	3,677.83	-310.96	-405.64	7.49	12,788.00	5,757.76	7,565.99	130.37	130.38	8,134.24	8,106.22	132.47	290.268
3,811.00	3,769.12	-318.34	-414.30	7.66	12,788.00	5,757.76	7,565.99	130.37	130.38	8,120.50	8,092.68	138.76	291.909
3,903.00	3,860.26	-326.39	-423.78	7.83	12,788.00	5,757.76	7,565.99	130.37	130.38	8,108.52	8,079.96	132.90	283.960
3,994.00	3,950.18	-334.98	-434.88	8.01	12,788.00	5,757.76	7,565.99	130.37	130.38	8,098.45	8,069.79	132.79	282.580
4,086.00	4,040.81	-344.27	-447.60	8.21	12,788.00	5,757.76	7,565.99	130.37	130.38	8,090.06	8,060.88	130.32	277.236
4,177.00	4,130.25	-353.99	-461.30	8.40	12,788.00	5,757.76	7,565.99	130.37	130.38	8,083.42	8,054.16	131.01	276.198
4,268.00	4,219.89	-363.34	-473.86	8.61	12,788.00	5,757.76	7,565.99	130.37	130.38	8,077.32	8,047.95	132.89	275.051
4,361.00	4,311.75	-372.15	-485.38	8.81	12,788.00	5,757.76	7,565.99	130.37	130.38	8,071.27	8,041.85	132.29	274.353
4,453.00	4,402.85	-379.93	-495.56	9.01	12,788.00	5,757.76	7,565.99	130.37	130.38	8,065.28	8,035.76	132.81	273.226
4,545.00	4,494.14	-387.18	-504.32	9.20	12,788.00	5,757.76	7,565.99	130.37	130.38	8,059.67	8,030.11	136.81	272.643
4,637.00	4,585.54	-394.54	-511.79	9.39	12,788.00	5,757.76	7,565.99	130.37	130.38	8,055.10	8,025.37	142.38	270.926
4,729.00	4,677.01	-402.16	-518.13	9.57	12,788.00	5,757.76	7,565.99	130.37	130.38	8,051.74	8,021.92	148.23	269.971
4,821.00	4,768.60	-408.63	-523.80	9.75	12,788.00	5,757.76	7,565.99	130.37	130.38	8,048.23	8,018.35	138.37	269.385

**Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1**

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

Offset Design: Sec. 21-T10N-R58W - Razor #21C-2807A - Existing Well - Customer Supplied

Scan Range: 0.00 to 13,179.06 usft. Measured Depth.

Scan Radius is 9,999.98 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
4,910.00	4,857.39	-412.15	-528.75	9.91	12,788.00	5,757.76	7,565.99	130.37	130.38	8,043.04	8,013.18	117.19	269.342
4,999.00	4,946.32	-413.18	-531.90	10.06	12,788.00	5,757.76	7,565.99	130.37	130.38	8,036.20	8,006.40	102.59	269.656
5,088.00	5,035.30	-413.28	-533.76	10.21	12,788.00	5,757.76	7,565.99	130.37	130.38	8,029.32	7,999.38	93.26	268.202
5,175.00	5,122.03	-407.44	-535.38	10.34	12,788.00	5,757.76	7,565.99	130.37	130.38	8,017.63	7,986.75	12.45	259.616
5,220.00	5,166.23	-399.21	-536.69	10.39	12,788.00	5,757.76	7,565.99	130.37	130.38	8,006.84	7,973.53	15.32	240.399
5,265.00	5,209.52	-387.10	-538.39	10.44	12,788.00	5,757.76	7,565.99	130.37	130.38	7,992.51	7,957.32	12.05	227.144
5,309.00	5,250.86	-372.07	-538.46	10.47	12,788.00	5,757.76	7,565.99	130.37	130.38	7,975.46	7,940.08	0.05	225.405
5,354.00	5,292.06	-354.13	-536.26	10.49	12,788.00	5,757.76	7,565.99	130.37	130.38	7,955.54	7,919.77	-4.67	222.408
5,399.00	5,332.09	-333.71	-534.10	10.50	12,788.00	5,757.76	7,565.99	130.37	130.38	7,933.40	7,894.36	1.50	203.232
5,444.00	5,370.53	-310.36	-533.55	10.52	12,788.00	5,757.76	7,565.99	130.37	130.38	7,908.71	7,865.96	6.62	184.975
5,489.00	5,406.91	-283.89	-534.15	10.54	12,788.00	5,757.76	7,565.99	130.37	130.38	7,881.27	7,834.77	8.86	169.471
5,533.00	5,440.00	-254.93	-535.06	10.56	12,788.00	5,757.76	7,565.99	130.37	130.38	7,851.61	7,802.11	9.24	158.603
5,578.00	5,470.89	-222.24	-535.45	10.57	12,788.00	5,757.76	7,565.99	130.37	130.38	7,818.37	7,766.92	7.33	151.969
5,623.00	5,498.80	-186.96	-534.68	10.57	12,788.00	5,757.76	7,565.99	130.37	130.38	7,782.62	7,730.70	4.68	149.877
5,668.00	5,524.32	-149.92	-533.66	10.57	12,788.00	5,757.76	7,565.99	130.37	130.38	7,745.22	7,690.49	7.37	141.504
5,713.00	5,547.77	-111.52	-533.61	10.57	12,788.00	5,757.76	7,565.99	130.37	130.38	7,706.67	7,647.73	11.66	130.757
5,757.00	5,568.73	-72.84	-534.14	10.59	12,788.00	5,757.76	7,565.99	130.37	130.38	7,667.97	7,607.04	12.63	125.847
5,802.00	5,587.48	-31.96	-534.72	10.61	12,788.00	5,757.76	7,565.99	130.37	130.38	7,627.15	7,561.90	15.44	116.889
5,847.00	5,603.19	10.20	-535.38	10.64	12,788.00	5,757.76	7,565.99	130.37	130.38	7,585.13	7,515.47	18.36	108.895
5,891.00	5,616.19	52.23	-535.84	10.69	12,788.00	5,757.76	7,565.99	130.37	130.38	7,543.26	7,471.74	19.28	105.470
5,936.00	5,627.10	95.88	-536.14	10.75	12,788.00	5,757.76	7,565.99	130.37	130.38	7,499.79	7,420.28	24.83	94.331
5,979.00	5,634.47	138.23	-536.11	10.83	12,788.00	5,757.76	7,565.99	130.37	130.38	7,457.60	7,367.98	31.52	83.217
6,032.00	5,640.41	190.88	-535.23	10.95	12,788.00	5,757.76	7,565.99	130.37	130.38	7,405.08	7,310.08	35.15	77.950
6,105.00	5,644.89	263.70	-533.18	14.39	12,788.00	5,757.76	7,565.99	130.37	130.38	7,332.37	7,204.08	62.47	57.153
6,195.00	5,646.20	353.67	-531.47	14.45	12,788.00	5,757.76	7,565.99	130.37	130.38	7,242.63	7,101.04	88.78	51.155
6,284.00	5,646.62	442.67	-531.73	14.52	12,788.00	5,757.76	7,565.99	130.37	130.38	7,154.03	7,012.77	84.18	50.646
6,374.00	5,646.99	532.65	-533.44	14.60	12,788.00	5,757.76	7,565.99	130.37	130.38	7,064.60	6,922.44	89.72	49.693
6,463.00	5,646.43	621.57	-537.17	14.68	12,788.00	5,757.76	7,565.99	130.37	130.38	6,976.44	6,834.18	93.61	49.040
6,553.00	5,645.97	711.45	-541.76	14.78	12,788.00	5,757.76	7,565.99	130.37	130.38	6,887.42	6,744.59	88.97	48.222
6,642.00	5,644.43	800.41	-543.13	14.89	12,788.00	5,757.76	7,565.99	130.37	130.38	6,799.03	6,664.31	111.85	50.467
6,732.00	5,640.60	890.32	-542.27	15.00	12,788.00	5,757.76	7,565.99	130.37	130.38	6,709.47	6,578.67	117.06	51.294
6,819.00	5,637.37	977.26	-542.05	15.13	12,788.00	5,757.76	7,565.99	130.37	130.38	6,622.95	6,482.20	103.47	47.055
6,909.00	5,636.25	1,067.25	-541.81	15.29	12,788.00	5,757.76	7,565.99	130.37	130.38	6,533.41	6,389.02	89.93	45.247
6,998.00	5,635.81	1,156.24	-540.77	15.48	12,788.00	5,757.76	7,565.99	130.37	130.38	6,444.79	6,300.74	96.52	44.739
7,088.00	5,635.10	1,246.23	-540.55	15.73	12,788.00	5,757.76	7,565.99	130.37	130.38	6,355.27	6,209.88	92.79	43.712
7,177.00	5,634.71	1,335.15	-544.01	16.05	12,788.00	5,757.76	7,565.99	130.37	130.38	6,267.22	6,121.10	91.07	42.891
7,267.00	5,634.10	1,425.02	-548.94	16.46	12,788.00	5,757.76	7,565.99	130.37	130.38	6,178.43	6,031.94	93.85	42.176
7,357.00	5,633.69	1,514.91	-553.27	16.92	12,788.00	5,757.76	7,565.99	130.37	130.38	6,089.57	5,942.21	89.68	41.323
7,446.00	5,633.63	1,603.88	-555.08	17.43	12,788.00	5,757.76	7,565.99	130.37	130.38	6,001.38	5,853.63	91.61	40.619
7,536.00	5,633.80	1,693.86	-553.26	17.97	12,788.00	5,757.76	7,565.99	130.37	130.38	5,911.79	5,763.83	86.03	39.955
7,625.00	5,633.77	1,782.78	-549.52	18.53	12,788.00	5,757.76	7,565.99	130.37	130.38	5,823.04	5,675.19	96.46	39.385
7,715.00	5,633.15	1,872.64	-544.66	19.13	12,788.00	5,757.76	7,565.99	130.37	130.38	5,733.22	5,584.72	96.53	38.607
7,804.00	5,632.58	1,961.42	-538.43	19.74	12,788.00	5,757.76	7,565.99	130.37	130.38	5,644.33	5,497.26	101.31	38.378
7,894.00	5,632.36	2,051.28	-533.76	20.38	12,788.00	5,757.76	7,565.99	130.37	130.38	5,554.56	5,403.55	89.73	36.784
7,983.00	5,632.33	2,140.25	-531.42	21.03	12,788.00	5,757.76	7,565.99	130.37	130.38	5,465.95	5,314.46	91.43	36.082
8,073.00	5,631.53	2,230.22	-529.75	21.71	12,788.00	5,757.76	7,565.99	130.37	130.38	5,376.45	5,225.15	97.91	35.535
8,160.00	5,630.39	2,317.21	-530.39	22.39	12,788.00	5,757.76	7,565.99	130.37	130.38	5,290.21	5,137.32	94.45	34.602
8,250.00	5,629.66	2,407.19	-531.98	23.10	12,788.00	5,757.76	7,565.99	130.37	130.38	5,201.14	5,047.28	92.74	33.805
8,339.00	5,631.29	2,496.12	-534.84	23.81	12,788.00	5,757.76	7,565.99	130.37	130.38	5,113.32	4,962.00	76.78	33.792
8,427.00	5,634.25	2,584.03	-537.46	24.52	12,788.00	5,757.76	7,565.99	130.37	130.38	5,026.52	4,872.79	80.68	32.696
8,519.00	5,634.54	2,676.01	-536.48	25.26	12,788.00	5,757.76	7,565.99	130.37	130.38	4,935.24	4,781.53	100.42	32.107
8,611.00	5,632.12	2,767.93	-533.73	26.00	12,788.00	5,757.76	7,565.99	130.37	130.38	4,843.80	4,692.88	107.18	32.096

**Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1**

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

Offset Design: Sec. 21-T10N-R58W - Razor #21C-2807A - Existing Well - Customer Supplied

Scan Range: 0.00 to 13,179.06 usft. Measured Depth.

Scan Radius is 9,999.98 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
8,703.00	5,629.56	2,859.87	-531.44	26.74	12,788.00	5,757.76	7,565.99	130.37	130.38	4,752.43	4,597.39	101.00	30.652
8,795.00	5,628.84	2,951.85	-530.93	27.50	12,788.00	5,757.76	7,565.99	130.37	130.38	4,661.29	4,502.87	88.56	29.425
8,887.00	5,629.56	3,043.83	-533.07	28.29	12,788.00	5,757.76	7,565.99	130.37	130.38	4,570.57	4,411.46	87.14	28.725
8,980.00	5,630.16	3,136.77	-536.18	29.08	12,788.00	5,757.76	7,565.99	130.37	130.38	4,479.09	4,319.03	89.56	27.983
9,071.00	5,630.87	3,227.71	-539.44	29.85	12,788.00	5,757.76	7,565.99	130.37	130.38	4,389.68	4,229.09	86.48	27.335
9,163.00	5,633.00	3,319.66	-541.53	30.61	12,788.00	5,757.76	7,565.99	130.37	130.38	4,299.16	4,140.10	78.91	27.029
9,253.00	5,635.48	3,409.62	-541.25	31.36	12,788.00	5,757.76	7,565.99	130.37	130.38	4,210.28	4,049.57	81.52	26.198
9,345.00	5,636.36	3,501.59	-539.43	32.13	12,788.00	5,757.76	7,565.99	130.37	130.38	4,119.21	3,956.38	90.98	25.296
9,436.00	5,635.97	3,592.58	-537.95	32.90	12,788.00	5,757.76	7,565.99	130.37	130.38	4,029.22	3,865.54	92.07	24.617
9,528.00	5,636.55	3,684.58	-537.56	33.69	12,788.00	5,757.76	7,565.99	130.37	130.38	3,938.46	3,774.66	83.75	24.044
9,620.00	5,638.86	3,776.54	-537.06	34.47	12,788.00	5,757.76	7,565.99	130.37	130.38	3,847.77	3,685.01	78.84	23.641
9,711.00	5,640.63	3,867.50	-535.13	35.24	12,788.00	5,757.76	7,565.99	130.37	130.38	3,757.89	3,592.20	86.67	22.681
9,803.00	5,640.74	3,959.44	-531.68	36.02	12,788.00	5,757.76	7,565.99	130.37	130.38	3,666.82	3,500.28	91.41	22.018
9,894.00	5,641.49	4,050.39	-528.95	36.81	12,788.00	5,757.76	7,565.99	130.37	130.38	3,576.90	3,410.52	82.23	21.499
9,985.00	5,643.18	4,141.36	-527.59	37.60	12,788.00	5,757.76	7,565.99	130.37	130.38	3,487.27	3,319.49	84.33	20.785
10,000.00	5,643.51	4,156.35	-527.34	37.68	12,788.00	5,757.76	7,565.99	130.37	130.38	3,472.50	3,306.30	79.55	20.894
10,029.66	5,644.79	4,185.97	-526.53	37.77	12,788.00	5,757.76	7,565.99	130.37	130.38	3,443.27	3,283.60	69.43	21.566
10,100.00	5,648.67	4,256.19	-525.37	37.98	12,788.00	5,757.76	7,565.99	130.37	130.38	3,374.15	3,210.68	73.93	20.641
10,129.86	5,650.25	4,286.01	-525.65	38.07	12,788.00	5,757.76	7,565.99	130.37	130.38	3,344.97	3,180.44	75.40	20.330
10,160.81	5,651.74	4,316.92	-526.09	38.17	12,788.00	5,757.76	7,565.99	130.37	130.38	3,314.76	3,149.15	77.09	20.016
10,200.00	5,653.46	4,356.07	-526.51	38.29	12,788.00	5,757.76	7,565.99	130.37	130.38	3,276.49	3,110.76	77.09	19.770
10,300.00	5,657.85	4,455.97	-527.59	38.63	12,788.00	5,757.76	7,565.99	130.37	130.38	3,178.93	3,012.88	77.09	19.144
10,400.00	5,662.23	4,555.87	-528.66	38.99	12,788.00	5,757.76	7,565.99	130.37	130.38	3,081.54	2,915.13	77.09	18.518
10,500.00	5,666.62	4,655.77	-529.74	39.37	12,788.00	5,757.76	7,565.99	130.37	130.38	2,984.31	2,817.54	77.09	17.894
10,600.00	5,671.00	4,755.66	-530.82	39.77	12,788.00	5,757.76	7,565.99	130.37	130.38	2,887.27	2,720.11	77.09	17.272
10,700.00	5,675.39	4,855.56	-531.89	40.19	12,788.00	5,757.76	7,565.99	130.37	130.38	2,790.45	2,622.88	77.09	16.652
10,800.00	5,679.77	4,955.46	-532.97	40.63	12,788.00	5,757.76	7,565.99	130.37	130.38	2,693.85	2,525.85	77.09	16.035
10,900.00	5,684.16	5,055.36	-534.04	41.08	12,788.00	5,757.76	7,565.99	130.37	130.38	2,597.51	2,429.07	77.09	15.420
10,919.26	5,685.00	5,074.60	-534.25	41.17	12,788.00	5,757.76	7,565.99	130.37	130.38	2,578.99	2,410.46	77.09	15.303
10,975.26	5,687.01	5,130.56	-534.54	41.44	12,788.00	5,757.76	7,565.99	130.37	130.38	2,525.09	2,354.98	79.81	14.844
11,000.00	5,687.70	5,155.29	-534.53	41.56	12,788.00	5,757.76	7,565.99	130.37	130.38	2,501.26	2,331.03	79.81	14.694
11,100.00	5,690.48	5,255.25	-534.48	42.05	12,788.00	5,757.76	7,565.99	130.37	130.38	2,405.11	2,234.40	79.81	14.089
11,200.00	5,693.27	5,355.21	-534.44	42.56	12,788.00	5,757.76	7,565.99	130.37	130.38	2,309.29	2,138.08	79.81	13.488
11,300.00	5,696.05	5,455.17	-534.39	43.09	12,788.00	5,757.76	7,565.99	130.37	130.38	2,213.85	2,042.11	79.81	12.891
11,400.00	5,698.83	5,555.14	-534.35	43.63	12,788.00	5,757.76	7,565.99	130.37	130.38	2,118.82	1,946.55	79.81	12.300
11,500.00	5,701.62	5,655.10	-534.30	44.18	12,788.00	5,757.76	7,565.99	130.37	130.38	2,024.27	1,851.46	79.81	11.713
11,600.00	5,704.40	5,755.06	-534.26	44.76	12,788.00	5,757.76	7,565.99	130.37	130.38	1,930.27	1,756.89	79.81	11.133
11,621.40	5,705.00	5,776.45	-534.25	44.88	12,788.00	5,757.76	7,565.99	130.37	130.38	1,910.24	1,736.73	79.81	11.010
11,703.35	5,706.11	5,858.39	-534.23	45.36	12,788.00	5,757.76	7,565.99	130.37	130.38	1,833.74	1,658.24	84.04	10.449
11,800.00	5,706.04	5,955.04	-534.23	45.94	12,788.00	5,757.76	7,565.99	130.37	130.38	1,744.09	1,568.01	84.04	9.905
11,900.00	5,705.96	6,055.04	-534.23	46.55	12,788.00	5,757.76	7,565.99	130.37	130.38	1,652.16	1,475.48	84.04	9.351
12,000.00	5,705.89	6,155.04	-534.24	47.18	12,788.00	5,757.76	7,565.99	130.37	130.38	1,561.23	1,383.92	84.04	8.805
12,100.00	5,705.81	6,255.04	-534.24	47.81	12,788.00	5,757.76	7,565.99	130.37	130.38	1,471.48	1,293.53	84.04	8.269
12,200.00	5,705.74	6,355.04	-534.24	48.46	12,788.00	5,757.76	7,565.99	130.37	130.38	1,383.13	1,204.54	84.04	7.745
12,300.00	5,705.66	6,455.04	-534.24	49.12	12,788.00	5,757.76	7,565.99	130.37	130.38	1,296.47	1,117.23	84.04	7.233
12,400.00	5,705.59	6,555.04	-534.24	49.79	12,788.00	5,757.76	7,565.99	130.37	130.38	1,211.88	1,031.96	84.04	6.736
12,500.00	5,705.51	6,655.04	-534.24	50.47	12,788.00	5,757.76	7,565.99	130.37	130.38	1,129.80	949.21	84.04	6.256
12,600.00	5,705.44	6,755.04	-534.24	51.16	12,788.00	5,757.76	7,565.99	130.37	130.38	1,050.83	869.56	84.04	5.797
12,700.00	5,705.36	6,855.04	-534.24	51.86	12,788.00	5,757.76	7,565.99	130.37	130.38	975.73	793.76	84.04	5.362
12,800.00	5,705.29	6,955.04	-534.25	52.57	12,788.00	5,757.76	7,565.99	130.37	130.38	905.46	722.78	84.04	4.957
12,900.00	5,705.21	7,055.04	-534.25	53.28	12,788.00	5,757.76	7,565.99	130.37	130.38	841.22	657.83	84.04	4.587
13,000.00	5,705.13	7,155.04	-534.25	54.01	12,788.00	5,757.76	7,565.99	130.37	130.38	784.51	600.39	84.04	4.261



Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)  
Offset Design: Sec. 21-T10N-R58W - Razor #21C-2807A - Existing Well - Customer Supplied  
Scan Range: 0.00 to 13,179.06 usft. Measured Depth.  
Scan Radius is 9,999.98 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
13,100.00	5,705.06	7,255.04	-534.25	54.74	12,788.00	5,757.76	7,565.99	130.37	130.38	737.06	552.21	84.04	3.987
13,179.06	5,705.00	7,334.10	-534.25	55.33	12,788.00	5,757.76	7,565.99	130.37	130.38	707.34	521.91	84.04	3.815

**Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1**

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

Offset Design: Sec. 33-T10N-R58W (Razor #33M Pad) - Razor #33M-2804 - Customer Supplied Plan - Customer Supplied Plan

Scan Range: 0.00 to 13,179.06 usft. Measured Depth.

Scan Radius is 9,999.98 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
140.00	140.00	0.06	-0.83	3.29	151.00	151.00	70.69	-1,089.92	3.30	1,091.38	1,083.83	-0.20	144.510
231.00	230.99	0.08	-1.69	3.31	241.99	241.99	70.69	-1,089.92	3.32	1,090.52	1,082.93	5.23	143.785
323.00	322.99	0.31	-2.59	3.33	333.99	333.99	70.69	-1,089.92	3.35	1,089.61	1,081.97	-18.86	142.623
416.00	415.97	-0.06	-4.30	3.37	426.97	426.97	70.69	-1,089.92	3.39	1,087.93	1,080.21	31.85	140.927
508.00	507.90	-1.97	-7.39	3.42	518.90	518.90	70.69	-1,089.92	3.45	1,084.96	1,077.14	37.42	138.725
600.00	599.70	-5.52	-12.14	3.48	610.70	610.70	70.69	-1,089.92	3.51	1,080.48	1,072.53	43.08	136.001
692.00	691.35	-10.46	-18.52	3.55	702.35	702.35	70.69	-1,089.92	3.59	1,074.47	1,066.38	41.22	132.819
784.00	782.81	-16.17	-26.58	3.64	793.81	793.81	70.69	-1,089.92	3.68	1,066.88	1,058.62	39.02	129.240
874.00	871.96	-23.21	-36.68	3.74	882.96	882.96	70.69	-1,089.92	3.77	1,057.42	1,048.99	40.84	125.434
965.00	961.77	-31.86	-48.48	3.86	972.77	972.77	70.69	-1,089.92	3.88	1,046.48	1,037.84	43.07	121.122
1,057.00	1,052.50	-40.89	-60.78	3.99	1,067.57	1,067.57	71.45	-1,089.71	3.99	1,035.05	1,026.18	42.16	116.703
1,149.00	1,143.20	-49.95	-73.25	4.12	1,163.21	1,163.12	75.15	-1,088.66	4.12	1,023.13	1,014.01	44.02	112.213
1,241.00	1,233.88	-59.28	-85.68	4.26	1,254.83	1,254.53	81.06	-1,086.98	4.24	1,011.13	1,001.76	45.66	107.867
1,332.00	1,323.60	-68.54	-97.71	4.39	1,343.49	1,342.98	87.00	-1,085.29	4.37	999.79	990.17	47.42	103.851
1,423.00	1,413.42	-77.25	-109.47	4.53	1,432.29	1,431.57	92.95	-1,083.60	4.50	988.92	979.03	45.26	100.021
1,484.00	1,473.69	-82.79	-117.06	4.62	1,491.90	1,491.03	96.95	-1,082.47	4.59	982.02	971.94	48.26	97.463
1,611.00	1,599.26	-94.33	-132.18	4.74	1,616.13	1,614.96	105.27	-1,080.10	4.70	968.72	958.74	49.59	97.014
1,704.00	1,691.13	-102.26	-144.25	4.77	1,707.02	1,705.63	111.36	-1,078.37	4.72	958.24	948.23	42.95	95.657
1,796.00	1,781.89	-110.16	-157.00	4.80	1,796.80	1,795.19	117.37	-1,076.66	4.75	947.39	937.30	48.21	93.877
1,887.00	1,871.50	-120.44	-169.02	4.85	1,885.28	1,883.45	123.30	-1,074.97	4.80	938.17	927.97	61.80	92.013
1,980.00	1,962.98	-132.49	-180.64	4.92	1,975.52	1,973.47	129.35	-1,073.25	4.86	930.23	919.91	62.49	90.156
2,071.00	2,052.62	-143.69	-191.59	4.99	2,063.99	2,061.73	135.28	-1,071.56	4.92	923.13	912.68	63.39	88.288
2,163.00	2,143.29	-153.97	-203.29	5.07	2,153.54	2,151.06	141.28	-1,069.85	5.00	915.48	904.88	56.23	86.332
2,255.00	2,234.11	-162.55	-215.27	5.16	2,243.33	2,240.64	147.30	-1,068.13	5.08	907.42	896.64	54.23	84.178
2,347.00	2,324.89	-171.79	-226.97	5.26	2,333.06	2,330.14	153.31	-1,066.42	5.18	900.23	889.25	63.59	82.022
2,438.00	2,414.52	-182.40	-238.54	5.37	2,421.55	2,418.42	159.24	-1,064.72	5.28	894.07	882.88	65.63	79.935
2,531.00	2,506.19	-193.15	-249.91	5.49	2,512.07	2,508.72	165.31	-1,062.99	5.39	888.63	877.21	67.86	77.803
2,620.00	2,593.96	-202.67	-261.22	5.61	2,598.77	2,595.21	171.12	-1,061.33	5.50	883.18	871.53	61.67	75.818
2,711.00	2,683.71	-211.68	-273.26	5.74	2,687.47	2,683.69	177.07	-1,059.63	5.62	877.28	865.38	63.72	73.695
2,802.00	2,773.53	-220.73	-284.71	5.88	2,776.25	2,772.26	183.02	-1,057.93	5.75	872.37	860.19	67.17	71.643
2,894.00	2,864.51	-229.40	-295.27	6.02	2,866.24	2,862.02	189.06	-1,056.20	5.89	868.50	856.04	68.20	69.697
2,985.00	2,954.56	-236.72	-306.10	6.16	2,955.38	2,950.95	195.03	-1,054.49	6.03	864.13	851.39	59.35	67.870
3,076.00	3,044.53	-244.10	-317.58	6.30	3,044.42	3,039.77	201.00	-1,052.78	6.18	859.57	846.55	67.45	65.991
3,168.00	3,135.20	-253.15	-330.19	6.45	3,134.03	3,129.17	207.01	-1,051.05	6.33	855.38	842.06	68.01	64.201
3,260.00	3,225.56	-263.07	-344.41	6.61	3,223.23	3,218.15	212.99	-1,049.34	6.49	850.82	837.18	68.66	62.387
3,353.00	3,316.86	-273.74	-358.47	6.79	3,313.34	3,308.04	219.04	-1,047.60	6.65	847.42	833.44	75.48	60.623
3,444.00	3,406.34	-284.23	-371.32	6.96	3,401.65	3,396.13	224.96	-1,045.90	6.81	845.45	831.13	75.54	59.052
3,536.00	3,496.87	-294.48	-384.11	7.14	3,491.02	3,485.29	230.95	-1,044.18	6.98	843.96	829.31	77.29	57.570
3,626.00	3,585.70	-303.31	-395.48	7.31	3,578.83	3,572.89	236.84	-1,042.49	7.15	843.18	828.19	76.34	56.231
3,685.46	3,644.59	-308.21	-402.02	7.42	3,637.14	3,631.05	240.75	-1,041.37	7.26	843.05	827.83	77.65	55.397
3,719.00	3,677.83	-310.96	-405.64	7.49	3,670.03	3,663.86	242.96	-1,040.73	7.33	843.09	827.74	78.39	54.943
3,811.00	3,769.12	-318.34	-414.30	7.66	3,760.44	3,754.05	249.02	-1,038.99	7.51	844.28	828.59	86.05	53.801
3,903.00	3,860.26	-326.39	-423.78	7.83	3,850.65	3,844.04	255.07	-1,037.24	7.69	845.69	829.65	81.04	52.738
3,994.00	3,950.18	-334.98	-434.88	8.01	3,939.56	3,932.73	261.04	-1,035.53	7.87	846.65	830.27	82.25	51.666
4,086.00	4,040.81	-344.27	-447.60	8.21	4,029.11	4,022.06	267.05	-1,033.80	8.06	847.48	830.73	80.95	50.605
4,177.00	4,130.25	-353.99	-461.30	8.40	4,117.41	4,110.15	272.97	-1,032.09	8.24	848.43	831.32	83.14	49.574
4,268.00	4,219.89	-363.34	-473.86	8.61	4,205.97	4,198.49	278.91	-1,030.37	8.43	850.43	832.95	86.45	48.629
4,361.00	4,311.75	-372.15	-485.38	8.81	4,296.79	4,289.09	285.01	-1,028.62	8.63	853.28	835.42	87.25	47.762
4,453.00	4,402.85	-379.93	-495.56	9.01	4,386.96	4,379.04	291.06	-1,026.87	8.82	856.58	838.34	89.01	46.975
4,545.00	4,494.14	-387.18	-504.32	9.20	4,477.37	4,469.23	297.12	-1,025.12	9.02	860.69	842.09	94.21	46.273
4,637.00	4,585.54	-394.54	-511.79	9.39	4,567.91	4,559.55	303.20	-1,023.36	9.22	865.98	847.02	100.83	45.675
4,729.00	4,677.01	-402.16	-518.13	9.57	4,658.52	4,649.94	309.28	-1,021.60	9.42	872.40	853.08	107.72	45.165

**Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1**

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

Offset Design: Sec. 33-T10N-R58W (Razor #33M Pad) - Razor #33M-2804 - Customer Supplied Plan - Customer Supplied Plan

Scan Range: 0.00 to 13,179.06 usft. Measured Depth.

Scan Radius is 9,999.98 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
4,821.00	4,768.60	-408.63	-523.80	9.75	4,749.35	4,740.55	315.38	-1,019.84	9.62	878.50	858.83	98.76	44.654
4,910.00	4,857.39	-412.15	-528.75	9.91	4,837.59	4,828.57	321.30	-1,018.12	9.82	882.62	862.61	78.41	44.113
4,999.00	4,946.32	-413.18	-531.90	10.06	4,926.18	4,916.95	327.24	-1,016.40	10.02	885.77	865.43	64.49	43.548
5,088.00	5,035.30	-413.28	-533.76	10.21	5,014.91	5,005.45	333.20	-1,014.68	10.22	888.93	868.26	55.59	43.004
5,175.00	5,122.03	-407.44	-535.38	10.34	5,101.78	5,092.11	339.03	-1,012.99	10.42	887.13	866.21	-25.20	42.405
5,220.00	5,166.23	-399.21	-536.69	10.39	5,146.40	5,136.62	342.03	-1,012.12	10.52	881.54	860.61	-23.11	42.117
5,265.00	5,209.52	-387.10	-538.39	10.44	5,190.37	5,180.49	344.98	-1,011.26	10.63	872.44	851.49	-27.15	41.637
5,309.00	5,250.86	-372.07	-538.46	10.47	5,232.61	5,222.63	347.81	-1,010.44	10.72	861.71	840.65	-39.53	40.915
5,354.00	5,292.06	-354.13	-536.26	10.49	5,264.97	5,254.90	349.99	-1,009.81	10.80	849.91	828.77	-44.71	40.203
5,399.00	5,332.09	-333.71	-534.10	10.50	5,290.37	5,280.19	352.28	-1,009.15	10.86	836.79	815.79	-40.58	39.838
5,444.00	5,370.53	-310.36	-533.55	10.52	5,300.00	5,289.74	353.47	-1,008.80	10.89	821.56	800.77	-37.58	39.532
5,489.00	5,406.91	-283.89	-534.15	10.54	5,331.34	5,320.64	358.48	-1,007.36	10.99	803.76	783.13	-38.14	38.959
5,533.00	5,440.00	-254.93	-535.06	10.56	5,350.00	5,338.87	362.31	-1,006.26	11.04	784.59	764.09	-40.34	38.263
5,578.00	5,470.89	-222.24	-535.45	10.57	5,371.06	5,359.25	367.38	-1,004.80	11.13	763.53	743.03	-44.82	37.242
5,623.00	5,498.80	-186.96	-534.68	10.57	5,400.00	5,386.88	375.64	-1,002.43	11.24	741.90	721.24	-49.30	35.914
5,668.00	5,524.32	-149.92	-533.66	10.57	5,400.00	5,386.88	375.64	-1,002.43	11.24	719.71	699.16	-49.67	35.022
5,713.00	5,547.77	-111.52	-533.61	10.57	5,430.82	5,415.74	386.03	-999.44	11.39	696.43	675.80	-50.69	33.750
5,757.00	5,568.73	-72.84	-534.14	10.59	5,450.00	5,433.35	393.33	-997.35	11.49	673.28	652.49	-53.01	32.388
5,802.00	5,587.48	-31.96	-534.72	10.61	5,471.24	5,452.52	402.12	-994.82	11.61	649.18	628.15	-56.28	30.878
5,847.00	5,603.19	10.20	-535.38	10.64	5,500.00	5,477.84	415.22	-991.07	11.78	624.72	603.34	-59.89	29.215
5,891.00	5,616.19	52.23	-535.84	10.69	5,512.11	5,488.27	421.13	-989.37	11.86	600.90	579.25	-62.50	27.759
5,936.00	5,627.10	95.88	-536.14	10.75	5,533.37	5,506.24	432.06	-986.23	12.00	577.05	555.03	-65.82	26.201
5,979.00	5,634.47	138.23	-536.11	10.83	5,550.00	5,519.95	441.10	-983.64	12.11	554.77	532.34	-70.05	24.731
6,032.00	5,640.41	190.88	-535.23	10.95	5,579.75	5,543.71	458.31	-978.70	12.34	528.94	506.00	-73.73	23.057
6,105.00	5,644.89	263.70	-533.18	14.39	5,618.30	5,572.91	482.49	-971.77	12.66	497.10	473.55	-78.72	21.107
6,195.00	5,646.20	353.67	-531.47	14.45	5,672.09	5,610.37	519.55	-961.14	13.16	462.96	438.69	-83.79	19.078
6,284.00	5,646.62	442.67	-531.73	14.52	5,735.56	5,649.19	567.77	-947.32	13.82	434.09	408.96	-88.67	17.275
6,374.00	5,646.99	532.65	-533.44	14.60	5,811.91	5,687.38	631.25	-929.12	14.73	408.84	382.66	-94.30	15.616
6,463.00	5,646.43	621.57	-537.17	14.68	5,898.59	5,718.52	708.91	-906.86	15.89	384.75	357.36	-99.71	14.045
6,553.00	5,645.97	711.45	-541.76	14.78	5,995.59	5,736.97	800.32	-880.67	17.32	359.39	330.58	-103.43	12.476
6,642.00	5,644.43	800.41	-543.13	14.89	6,082.62	5,739.51	884.00	-857.05	18.63	335.56	305.36	-105.41	11.113
6,732.00	5,640.60	890.32	-542.27	15.00	6,157.81	5,739.52	957.01	-839.13	19.71	316.71	285.27	-107.03	10.073
6,819.00	5,637.37	977.26	-542.05	15.13	6,231.63	5,739.53	1,029.34	-824.34	20.79	301.18	268.45	-108.13	9.202
6,909.00	5,636.25	1,067.25	-541.81	15.29	6,309.16	5,739.53	1,105.84	-811.82	21.95	287.94	253.77	-108.86	8.428
6,998.00	5,635.81	1,156.24	-540.77	15.48	6,386.77	5,739.53	1,182.87	-802.40	23.13	278.84	243.17	-109.53	7.817
7,088.00	5,635.10	1,246.23	-540.55	15.73	6,465.79	5,739.52	1,261.62	-796.02	24.37	272.45	235.23	-110.12	7.319
7,177.00	5,634.71	1,335.15	-544.01	16.05	6,544.18	5,739.51	1,339.95	-792.91	25.60	266.03	227.29	-110.73	6.866
7,267.00	5,634.10	1,425.02	-548.94	16.46	6,626.76	5,739.49	1,422.52	-792.93	26.89	261.62	221.15	-111.18	6.463
7,357.00	5,633.69	1,514.91	-553.27	16.92	6,716.69	5,739.47	1,512.45	-793.86	28.20	258.60	216.47	-111.51	6.138
7,415.26	5,633.69	1,573.14	-555.08	17.25	6,774.93	5,739.46	1,570.69	-794.46	28.92	257.47	214.24	-111.60	5.956
7,446.00	5,633.63	1,603.88	-555.08	17.43	6,805.66	5,739.45	1,601.42	-794.78	29.30	257.79	213.97	-111.58	5.884
7,536.00	5,633.80	1,693.86	-553.26	17.97	6,895.62	5,739.43	1,691.37	-795.71	30.48	260.27	214.70	-111.35	5.711
7,625.00	5,633.77	1,782.78	-549.52	18.53	6,984.49	5,739.41	1,780.24	-796.63	31.69	264.62	217.20	-110.97	5.580
7,715.00	5,633.15	1,872.64	-544.66	19.13	7,074.30	5,739.39	1,870.04	-797.56	32.97	270.25	220.91	-110.65	5.477
7,804.00	5,632.58	1,961.42	-538.43	19.74	7,163.00	5,739.37	1,958.74	-798.48	34.27	277.15	225.88	-110.28	5.406
7,894.00	5,632.36	2,051.28	-533.76	20.38	7,252.80	5,739.35	2,048.54	-799.42	35.63	282.48	229.13	-109.88	5.295
7,983.00	5,632.33	2,140.25	-531.42	21.03	7,341.74	5,739.34	2,137.47	-800.34	37.01	285.56	230.18	-109.66	5.156
8,073.00	5,631.53	2,230.22	-529.75	21.71	7,431.69	5,739.32	2,227.41	-801.28	38.43	288.27	230.87	-109.61	5.021
8,160.00	5,630.39	2,317.21	-530.39	22.39	7,518.68	5,739.30	2,314.39	-802.18	39.84	288.91	229.60	-109.81	4.871
8,250.00	5,629.66	2,407.19	-531.98	23.10	7,608.67	5,739.28	2,404.38	-803.12	41.31	288.54	227.20	-109.99	4.704
8,339.00	5,631.29	2,496.12	-534.84	23.81	7,697.61	5,739.27	2,493.32	-804.05	42.79	286.16	222.77	-109.73	4.514
8,427.00	5,634.25	2,584.03	-537.46	24.52	7,785.54	5,739.25	2,581.24	-804.97	44.28	283.57	217.82	-109.35	4.313

**Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1**

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

Offset Design: Sec. 33-T10N-R58W (Razor #33M Pad) - Razor #33M-2804 - Customer Supplied Plan - Customer Supplied Plan

Scan Range: 0.00 to 13,179.06 usft. Measured Depth.

Scan Radius is 9,999.98 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	
8,444.62	5,634.61	2,601.64	-537.62	24.67	7,803.16	5,739.25	2,598.86	-805.16	44.57	283.46	217.25	-109.29	4.281	
8,519.00	5,634.54	2,676.01	-536.48	25.26	7,877.50	5,739.24	2,673.20	-805.94	45.85	285.29	217.20	-109.15	4.190	
	8,611.00	5,632.12	2,767.93	-533.73	26.00	7,969.39	5,739.22	2,765.08	-806.90	47.43	289.60	219.33	-109.32	4.122
	8,703.00	5,629.56	2,859.87	-531.44	26.74	8,061.29	5,739.21	2,856.98	-807.87	49.03	293.51	221.11	-109.61	4.054
	8,795.00	5,628.84	2,951.85	-530.93	27.50	8,153.26	5,739.19	2,948.95	-808.83	50.65	295.14	220.55	-109.67	3.957
	8,887.00	5,629.56	3,043.83	-533.07	28.29	8,245.25	5,739.18	3,040.93	-809.80	52.28	293.79	216.94	-109.60	3.823
	8,980.00	5,630.16	3,136.77	-536.18	29.08	8,338.22	5,739.16	3,133.89	-810.78	53.94	291.58	212.40	-109.64	3.683
	9,071.00	5,630.87	3,227.71	-539.44	29.85	8,429.18	5,739.15	3,224.85	-811.74	55.57	289.17	207.74	-109.65	3.551
	9,163.00	5,633.00	3,319.66	-541.53	30.61	8,521.14	5,739.14	3,316.80	-812.71	57.23	287.40	203.43	-109.32	3.423
	9,194.52	5,633.98	3,351.16	-541.67	30.88	8,552.64	5,739.13	3,348.30	-813.05	57.80	287.26	202.39	-109.14	3.385
	9,253.00	5,635.48	3,409.62	-541.25	31.36	8,611.09	5,739.12	3,406.75	-813.66	58.86	287.75	201.24	-108.81	3.326
	9,345.00	5,636.36	3,501.59	-539.43	32.13	8,703.04	5,739.11	3,498.69	-814.64	60.54	290.12	201.09	-108.44	3.259
	9,436.00	5,635.97	3,592.58	-537.95	32.90	8,794.00	5,739.10	3,589.65	-815.60	62.21	292.55	201.15	-108.35	3.201
	9,528.00	5,636.55	3,684.58	-537.56	33.69	8,885.98	5,739.09	3,681.62	-816.58	63.90	293.66	199.82	-108.17	3.129
	9,620.00	5,638.86	3,776.54	-537.06	34.47	8,977.93	5,739.08	3,773.57	-817.56	65.59	294.36	197.89	-107.67	3.051
	9,711.00	5,640.63	3,867.50	-535.13	35.24	9,068.86	5,739.07	3,864.49	-818.52	67.28	296.59	197.53	-107.18	2.994
	9,803.00	5,640.74	3,959.44	-531.68	36.02	9,160.75	5,739.06	3,956.38	-819.50	68.98	300.79	199.23	-106.88	2.961
	9,894.00	5,641.49	4,050.39	-528.95	36.81	9,251.66	5,739.05	4,047.28	-820.47	70.68	304.12	199.98	-106.57	2.920
	9,985.00	5,643.18	4,141.36	-527.59	37.60	9,342.61	5,739.04	4,138.23	-821.44	72.37	305.88	199.13	-106.13	2.865
	10,000.00	5,643.51	4,156.35	-527.34	37.68	9,357.60	5,739.04	4,153.22	-821.60	72.65	306.18	199.05	-106.07	2.858
	10,029.66	5,644.79	4,185.97	-526.53	37.77	9,387.21	5,739.04	4,182.82	-821.92	73.21	306.92	199.06	-105.87	2.846
	10,100.00	5,648.67	4,256.19	-525.37	37.98	9,457.41	5,739.03	4,253.02	-822.67	74.52	307.73	198.04	-104.95	2.805
	10,129.86	5,650.25	4,286.01	-525.65	38.07	9,487.22	5,739.03	4,282.83	-822.99	75.08	307.36	196.95	-104.62	2.784
	10,160.81	5,651.74	4,316.92	-526.09	38.17	9,518.14	5,739.02	4,313.75	-823.32	75.66	306.88	195.68	-104.38	2.760
	10,200.00	5,653.46	4,356.07	-526.51	38.29	9,557.29	5,739.02	4,352.89	-823.74	76.40	306.45	194.28	-104.07	2.732
	10,300.00	5,657.85	4,455.97	-527.59	38.63	9,657.19	5,739.01	4,452.79	-824.81	78.28	305.41	190.74	-103.27	2.663
	10,400.00	5,662.23	4,555.87	-528.66	38.99	9,757.09	5,739.00	4,552.68	-825.89	80.16	304.43	187.25	-102.47	2.598
	10,500.00	5,666.62	4,655.77	-529.74	39.37	9,856.99	5,739.00	4,652.57	-826.96	82.05	303.51	183.79	-101.66	2.535
	10,600.00	5,671.00	4,755.66	-530.82	39.77	9,956.88	5,738.99	4,752.47	-828.03	83.94	302.65	180.38	-100.84	2.475
	10,700.00	5,675.39	4,855.56	-531.89	40.19	10,056.78	5,738.98	4,852.36	-829.11	85.83	301.85	177.02	-100.03	2.418
	10,800.00	5,679.77	4,955.46	-532.97	40.63	10,156.68	5,738.98	4,952.25	-830.19	87.73	301.12	173.71	-99.20	2.363
	10,900.00	5,684.16	5,055.36	-534.04	41.08	10,256.58	5,738.97	5,052.15	-831.27	89.63	300.46	170.46	-98.38	2.311
	10,919.26	5,685.00	5,074.60	-534.25	41.17	10,275.82	5,738.97	5,071.39	-831.48	90.00	300.33	169.84	-98.22	2.302
	10,944.81	5,686.03	5,100.12	-534.46	41.29	10,301.35	5,738.97	5,096.91	-831.75	90.48	300.25	169.09	-98.04	2.289
	10,975.26	5,687.01	5,130.56	-534.54	41.44	10,331.78	5,738.97	5,127.34	-832.08	91.06	300.37	168.42	-97.85	2.276
	11,000.00	5,687.70	5,155.29	-534.53	41.56	10,356.51	5,738.97	5,152.07	-832.35	91.53	300.55	167.98	-97.72	2.267
	11,100.00	5,690.48	5,255.25	-534.48	42.05	10,456.46	5,738.96	5,252.01	-833.43	93.44	301.31	166.21	-97.16	2.230
	11,200.00	5,693.27	5,355.21	-534.44	42.56	10,556.41	5,738.96	5,351.96	-834.52	95.35	302.09	164.45	-96.61	2.195
	11,300.00	5,696.05	5,455.17	-534.39	43.09	10,656.36	5,738.96	5,451.90	-835.60	97.26	302.91	162.71	-96.06	2.161
	11,400.00	5,698.83	5,555.14	-534.35	43.63	10,756.31	5,738.96	5,551.85	-836.69	99.17	303.76	160.99	-95.52	2.128
	11,500.00	5,701.62	5,655.10	-534.30	44.18	10,856.26	5,738.95	5,651.79	-837.78	101.08	304.63	159.29	-94.98	2.096
	11,600.00	5,704.40	5,755.06	-534.26	44.76	10,956.21	5,738.95	5,751.74	-838.87	103.00	305.53	157.61	-94.44	2.066
	11,621.40	5,705.00	5,776.45	-534.25	44.88	10,977.60	5,738.95	5,773.12	-839.10	103.41	305.73	157.26	-94.32	2.059
	11,703.35	5,706.11	5,858.39	-534.23	45.36	11,059.53	5,738.95	5,855.05	-839.99	104.98	306.56	156.00	-94.09	2.036
	11,800.00	5,706.04	5,955.04	-534.23	45.94	11,156.17	5,738.95	5,951.68	-841.05	106.84	307.62	154.62	-94.08	2.011
	11,900.00	5,705.96	6,055.04	-534.23	46.55	11,256.16	5,738.95	6,051.67	-842.14	108.76	308.71	153.19	-94.08	1.985
	12,000.00	5,705.89	6,155.04	-534.24	47.18	11,356.15	5,738.95	6,151.65	-843.24	110.68	309.81	151.74	-94.08	1.960
	12,100.00	5,705.81	6,255.04	-534.24	47.81	11,456.14	5,738.95	6,251.63	-844.34	112.61	310.91	150.28	-94.08	1.936
	12,200.00	5,705.74	6,355.04	-534.24	48.46	11,556.13	5,738.96	6,351.62	-845.43	114.53	312.01	148.81	-94.08	1.912
	12,300.00	5,705.66	6,455.04	-534.24	49.12	11,656.12	5,738.96	6,451.60	-846.53	116.46	313.11	147.33	-94.08	1.889
	12,400.00	5,705.59	6,555.04	-534.24	49.79	11,756.11	5,738.96	6,551.59	-847.64	118.39	314.21	145.84	-94.08	1.866
	12,500.00	5,705.51	6,655.04	-534.24	50.47	11,856.10	5,738.96	6,651.57	-848.74	120.32	315.32	144.33	-94.08	1.844



**Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1**

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

Offset Design: Sec. 33-T10N-R58W (Razor #33M Pad) - Razor #33M-2804 - Customer Supplied Plan - Customer Supplied Plan

Scan Range: 0.00 to 13,179.06 usft. Measured Depth.

Scan Radius is 9,999.98 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
12,600.00	5,705.44	6,755.04	-534.24	51.16	11,956.09	5,738.97	6,751.55	-849.84	122.25	316.42	142.82	-94.08	1.823
12,700.00	5,705.36	6,855.04	-534.24	51.86	12,056.08	5,738.97	6,851.54	-850.95	124.18	317.53	141.30	-94.08	1.802
12,800.00	5,705.29	6,955.04	-534.25	52.57	12,156.07	5,738.98	6,951.52	-852.05	126.11	318.64	139.77	-94.08	1.781
12,900.00	5,705.21	7,055.04	-534.25	53.28	12,256.06	5,738.98	7,051.50	-853.16	128.04	319.75	138.24	-94.08	1.762
13,000.00	5,705.13	7,155.04	-534.25	54.01	12,356.05	5,738.99	7,151.48	-854.27	129.98	320.86	136.69	-94.08	1.742
13,100.00	5,705.06	7,255.04	-534.25	54.74	12,456.04	5,738.99	7,251.47	-855.38	131.91	321.97	135.14	-94.08	1.723
13,179.06	5,705.00	7,334.10	-534.25	55.33	12,535.09	5,739.00	7,330.52	-856.26	133.44	322.85	133.91	-94.08	1.709

**Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1**

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

Offset Design: Sec. 21-T10N-R58W - Razor #21D-2804B - Customer Supplied Plan - Customer Supplied Plan

Scan Range: 0.00 to 13,179.06 usft. Measured Depth.

Scan Radius is 9,999.98 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
140.00	140.00	0.06	-0.83	3.29	13,595.33	5,892.00	7,533.41	-866.46	73.05	9,443.62	9,417.20	80.03	357.417
231.00	230.99	0.08	-1.69	3.31	13,595.33	5,892.00	7,533.41	-866.46	73.05	9,389.57	9,363.07	85.27	354.354
323.00	322.99	0.31	-2.59	3.33	13,595.33	5,892.00	7,533.41	-866.46	73.05	9,335.34	9,308.88	61.38	352.803
416.00	415.97	-0.06	-4.30	3.37	13,595.33	5,892.00	7,533.41	-866.46	73.05	9,281.56	9,255.22	112.62	352.407
508.00	507.90	-1.97	-7.39	3.42	13,595.33	5,892.00	7,533.41	-866.46	73.05	9,230.11	9,203.89	118.79	351.909
600.00	599.70	-5.52	-12.14	3.48	13,595.33	5,892.00	7,533.41	-866.46	73.05	9,180.57	9,154.34	124.90	350.018
692.00	691.35	-10.46	-18.52	3.55	13,595.33	5,892.00	7,533.41	-866.46	73.05	9,132.77	9,106.52	123.35	347.935
784.00	782.81	-16.17	-26.58	3.64	13,595.33	5,892.00	7,533.41	-866.46	73.05	9,086.24	9,059.94	121.42	345.462
874.00	871.96	-23.21	-36.68	3.74	13,595.33	5,892.00	7,533.41	-866.46	73.05	9,042.57	9,016.03	123.65	340.707
965.00	961.77	-31.86	-48.48	3.86	13,595.33	5,892.00	7,533.41	-866.46	73.05	9,000.45	8,973.70	125.44	336.518
1,057.00	1,052.50	-40.89	-60.78	3.99	13,595.33	5,892.00	7,533.41	-866.46	73.05	8,958.84	8,932.02	124.00	334.008
1,149.00	1,143.20	-49.95	-73.25	4.12	13,595.33	5,892.00	7,533.41	-866.46	73.05	8,918.01	8,891.02	125.02	330.371
1,241.00	1,233.88	-59.28	-85.68	4.26	13,595.33	5,892.00	7,533.41	-866.46	73.05	8,878.19	8,851.05	125.65	327.103
1,332.00	1,323.60	-68.54	-97.71	4.39	13,595.33	5,892.00	7,533.41	-866.46	73.05	8,839.61	8,812.34	126.34	324.141
1,423.00	1,413.42	-77.25	-109.47	4.53	13,595.33	5,892.00	7,533.41	-866.46	73.05	8,801.30	8,774.02	123.26	322.654
1,484.00	1,473.69	-82.79	-117.06	4.62	13,595.33	5,892.00	7,533.41	-866.46	73.05	8,775.79	8,748.39	125.41	320.259
1,611.00	1,599.26	-94.33	-132.18	4.74	13,595.33	5,892.00	7,533.41	-866.46	73.05	8,723.82	8,696.52	125.34	319.589
1,704.00	1,691.13	-102.26	-144.25	4.77	13,595.33	5,892.00	7,533.41	-866.46	73.05	8,686.25	8,659.04	118.36	319.240
1,796.00	1,781.89	-110.16	-157.00	4.80	13,595.33	5,892.00	7,533.41	-866.46	73.05	8,649.94	8,622.59	122.40	316.370
1,887.00	1,871.50	-120.44	-169.02	4.85	13,595.33	5,892.00	7,533.41	-866.46	73.05	8,617.15	8,589.21	134.50	308.458
1,980.00	1,962.98	-132.49	-180.64	4.92	13,595.33	5,892.00	7,533.41	-866.46	73.05	8,585.99	8,558.14	133.82	308.296
2,071.00	2,052.62	-143.69	-191.59	4.99	13,595.33	5,892.00	7,533.41	-866.46	73.05	8,555.81	8,527.93	133.49	306.898
2,163.00	2,143.29	-153.97	-203.29	5.07	13,595.33	5,892.00	7,533.41	-866.46	73.05	8,525.17	8,497.49	125.47	307.957
2,255.00	2,234.11	-162.55	-215.27	5.16	13,595.33	5,892.00	7,533.41	-866.46	73.05	8,493.79	8,466.20	122.23	307.778
2,347.00	2,324.89	-171.79	-226.97	5.26	13,595.33	5,892.00	7,533.41	-866.46	73.05	8,463.94	8,435.91	130.36	301.917
2,438.00	2,414.52	-182.40	-238.54	5.37	13,595.33	5,892.00	7,533.41	-866.46	73.05	8,436.70	8,408.56	131.08	299.819
2,531.00	2,506.19	-193.15	-249.91	5.49	13,595.33	5,892.00	7,533.41	-866.46	73.05	8,409.71	8,381.49	131.91	298.017
2,620.00	2,593.96	-202.67	-261.22	5.61	13,595.33	5,892.00	7,533.41	-866.46	73.05	8,384.01	8,355.87	124.79	297.968
2,711.00	2,683.71	-211.68	-273.26	5.74	13,595.33	5,892.00	7,533.41	-866.46	73.05	8,357.92	8,329.68	125.50	295.922
2,802.00	2,773.53	-220.73	-284.71	5.88	13,595.33	5,892.00	7,533.41	-866.46	73.05	8,332.80	8,304.40	127.61	293.386
2,894.00	2,864.51	-229.40	-295.27	6.02	13,595.33	5,892.00	7,533.41	-866.46	73.05	8,307.90	8,279.49	127.22	292.370
2,985.00	2,954.56	-236.72	-306.10	6.16	13,595.33	5,892.00	7,533.41	-866.46	73.05	8,282.98	8,254.60	117.59	291.803
3,076.00	3,044.53	-244.10	-317.58	6.30	13,595.33	5,892.00	7,533.41	-866.46	73.05	8,259.02	8,230.35	124.34	288.036
3,168.00	3,135.20	-253.15	-330.19	6.45	13,595.33	5,892.00	7,533.41	-866.46	73.05	8,237.29	8,208.29	123.92	284.057
3,260.00	3,225.56	-263.07	-344.41	6.61	13,595.33	5,892.00	7,533.41	-866.46	73.05	8,217.34	8,188.20	123.18	281.936
3,353.00	3,316.86	-273.74	-358.47	6.79	13,595.33	5,892.00	7,533.41	-866.46	73.05	8,198.82	8,169.33	128.38	278.034
3,444.00	3,406.34	-284.23	-371.32	6.96	13,595.33	5,892.00	7,533.41	-866.46	73.05	8,181.75	8,152.26	126.91	277.433
3,536.00	3,496.87	-294.48	-384.11	7.14	13,595.33	5,892.00	7,533.41	-866.46	73.05	8,165.13	8,135.42	127.27	274.815
3,626.00	3,585.70	-303.31	-395.48	7.31	13,595.33	5,892.00	7,533.41	-866.46	73.05	8,148.69	8,119.14	124.70	275.765
3,719.00	3,677.83	-310.96	-405.64	7.49	13,595.33	5,892.00	7,533.41	-866.46	73.05	8,131.29	8,101.58	125.49	273.671
3,811.00	3,769.12	-318.34	-414.30	7.66	13,595.33	5,892.00	7,533.41	-866.46	73.05	8,114.95	8,085.08	131.74	271.661
3,903.00	3,860.26	-326.39	-423.78	7.83	13,595.33	5,892.00	7,533.41	-866.46	73.05	8,100.26	8,070.09	125.97	268.484
3,994.00	3,950.18	-334.98	-434.88	8.01	13,595.33	5,892.00	7,533.41	-866.46	73.05	8,087.30	8,057.01	125.85	266.917
4,086.00	4,040.81	-344.27	-447.60	8.21	13,595.33	5,892.00	7,533.41	-866.46	73.05	8,075.80	8,045.15	123.46	263.437
4,177.00	4,130.25	-353.99	-461.30	8.40	13,595.33	5,892.00	7,533.41	-866.46	73.05	8,065.94	8,035.17	124.12	262.099
4,268.00	4,219.89	-363.34	-473.86	8.61	13,595.33	5,892.00	7,533.41	-866.46	73.05	8,056.76	8,025.81	125.98	260.353
4,361.00	4,311.75	-372.15	-485.38	8.81	13,595.33	5,892.00	7,533.41	-866.46	73.05	8,047.70	8,016.71	125.34	259.651
4,453.00	4,402.85	-379.93	-495.56	9.01	13,595.33	5,892.00	7,533.41	-866.46	73.05	8,038.89	8,007.77	125.84	258.287
4,545.00	4,494.14	-387.18	-504.32	9.20	13,595.33	5,892.00	7,533.41	-866.46	73.05	8,030.64	7,999.37	129.80	256.816
4,637.00	4,585.54	-394.54	-511.79	9.39	13,595.33	5,892.00	7,533.41	-866.46	73.05	8,023.58	7,992.06	135.36	254.536
4,729.00	4,677.01	-402.16	-518.13	9.57	13,595.33	5,892.00	7,533.41	-866.46	73.05	8,017.87	7,986.19	141.18	253.068
4,821.00	4,768.60	-408.63	-523.80	9.75	13,595.33	5,892.00	7,533.41	-866.46	73.05	8,012.09	7,980.42	131.32	252.998

**Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1**

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

Offset Design: Sec. 21-T10N-R58W - Razor #21D-2804B - Customer Supplied Plan - Customer Supplied Plan

Scan Range: 0.00 to 13,179.06 usft. Measured Depth.

Scan Radius is 9,999.98 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
4,910.00	4,857.39	-412.15	-528.75	9.91	13,595.33	5,892.00	7,533.41	-866.46	73.05	8,004.77	7,973.12	110.11	252.906
4,999.00	4,946.32	-413.18	-531.90	10.06	13,595.33	5,892.00	7,533.41	-866.46	73.05	7,996.02	7,964.22	95.46	251.485
5,088.00	5,035.30	-413.28	-533.76	10.21	13,595.33	5,892.00	7,533.41	-866.46	73.05	7,987.39	7,955.44	86.13	250.017
5,175.00	5,122.03	-407.44	-535.38	10.34	13,595.33	5,892.00	7,533.41	-866.46	73.05	7,974.01	7,940.99	5.18	241.460
5,220.00	5,166.23	-399.21	-536.69	10.39	13,595.33	5,892.00	7,533.41	-866.46	73.05	7,962.29	7,927.39	7.89	228.149
5,265.00	5,209.52	-387.10	-538.39	10.44	13,595.33	5,892.00	7,533.41	-866.46	73.05	7,946.99	7,910.18	4.42	215.890
5,309.00	5,250.86	-372.07	-538.46	10.47	13,595.33	5,892.00	7,533.41	-866.46	73.05	7,929.20	7,890.19	-7.92	203.258
5,354.00	5,292.06	-354.13	-536.26	10.49	13,595.33	5,892.00	7,533.41	-866.46	73.05	7,908.82	7,868.29	-12.86	195.132
5,399.00	5,332.09	-333.71	-534.10	10.50	13,595.33	5,892.00	7,533.41	-866.46	73.05	7,886.23	7,843.47	-7.02	184.417
5,444.00	5,370.53	-310.36	-533.55	10.52	13,595.33	5,892.00	7,533.41	-866.46	73.05	7,860.92	7,815.84	-2.28	174.398
5,489.00	5,406.91	-283.89	-534.15	10.54	13,595.33	5,892.00	7,533.41	-866.46	73.05	7,832.72	7,784.87	-0.66	163.690
5,533.00	5,440.00	-254.93	-535.06	10.56	13,595.33	5,892.00	7,533.41	-866.46	73.05	7,802.32	7,751.85	-1.09	154.590
5,578.00	5,470.89	-222.24	-535.45	10.57	13,595.33	5,892.00	7,533.41	-866.46	73.05	7,768.42	7,715.10	-4.31	145.693
5,623.00	5,498.80	-186.96	-534.68	10.57	13,595.33	5,892.00	7,533.41	-866.46	73.05	7,732.21	7,676.83	-8.25	139.628
5,668.00	5,524.32	-149.92	-533.66	10.57	13,595.33	5,892.00	7,533.41	-866.46	73.05	7,694.42	7,637.74	-6.70	135.762
5,713.00	5,547.77	-111.52	-533.61	10.57	13,595.33	5,892.00	7,533.41	-866.46	73.05	7,655.36	7,597.71	-3.53	132.785
5,757.00	5,568.73	-72.84	-534.14	10.59	13,595.33	5,892.00	7,533.41	-866.46	73.05	7,616.14	7,557.42	-4.11	129.703
5,802.00	5,587.48	-31.96	-534.72	10.61	13,595.33	5,892.00	7,533.41	-866.46	73.05	7,574.80	7,514.64	-4.53	125.900
5,847.00	5,603.19	10.20	-535.38	10.64	13,595.33	5,892.00	7,533.41	-866.46	73.05	7,532.31	7,471.11	-5.36	123.077
5,891.00	5,616.19	52.23	-535.84	10.69	13,595.33	5,892.00	7,533.41	-866.46	73.05	7,490.04	7,427.91	-8.64	120.562
5,936.00	5,627.10	95.88	-536.14	10.75	13,595.33	5,892.00	7,533.41	-866.46	73.05	7,446.21	7,383.13	-10.61	118.046
5,979.00	5,634.47	138.23	-536.11	10.83	13,595.33	5,892.00	7,533.41	-866.46	73.05	7,403.77	7,336.53	-25.72	110.098
6,032.00	5,640.41	190.88	-535.23	10.95	13,595.33	5,892.00	7,533.41	-866.46	73.05	7,351.11	7,277.99	-42.14	100.523
6,105.00	5,644.89	263.70	-533.18	14.39	13,595.33	5,892.00	7,533.41	-866.46	73.05	7,278.40	7,194.72	-81.38	86.987
6,195.00	5,646.20	353.67	-531.47	14.45	13,595.33	5,892.00	7,533.41	-866.46	73.05	7,188.59	7,106.03	-107.78	87.071
6,284.00	5,646.62	442.67	-531.73	14.52	13,595.33	5,892.00	7,533.41	-866.46	73.05	7,099.69	7,016.04	-102.76	84.881
6,374.00	5,646.99	532.65	-533.44	14.60	13,595.33	5,892.00	7,533.41	-866.46	73.05	7,009.73	6,933.50	-131.22	91.954
6,463.00	5,646.43	621.57	-537.17	14.68	13,595.33	5,892.00	7,533.41	-866.46	73.05	6,920.76	6,855.01	161.30	105.248
6,553.00	5,645.97	711.45	-541.76	14.78	13,595.33	5,892.00	7,533.41	-866.46	73.05	6,830.79	6,766.71	-170.33	106.604
6,642.00	5,644.43	800.41	-543.13	14.89	13,595.33	5,892.00	7,533.41	-866.46	73.05	6,741.91	6,665.17	-131.06	87.851
6,732.00	5,640.60	890.32	-542.27	15.00	13,595.33	5,892.00	7,533.41	-866.46	73.05	6,652.23	6,579.46	-141.84	91.409
6,819.00	5,637.37	977.26	-542.05	15.13	13,595.33	5,892.00	7,533.41	-866.46	73.05	6,565.49	6,488.45	-132.25	85.228
6,909.00	5,636.25	1,067.25	-541.81	15.29	13,595.33	5,892.00	7,533.41	-866.46	73.05	6,475.66	6,390.99	-110.20	76.477
6,998.00	5,635.81	1,156.24	-540.77	15.48	13,595.33	5,892.00	7,533.41	-866.46	73.05	6,386.87	6,302.78	-114.01	75.961
7,088.00	5,635.10	1,246.23	-540.55	15.73	13,595.33	5,892.00	7,533.41	-866.46	73.05	6,297.04	6,215.88	-124.87	77.596
7,177.00	5,634.71	1,335.15	-544.01	16.05	13,595.33	5,892.00	7,533.41	-866.46	73.05	6,208.08	6,138.10	152.66	88.710
7,267.00	5,634.10	1,425.02	-548.94	16.46	13,595.33	5,892.00	7,533.41	-866.46	73.05	6,118.12	6,052.51	-167.63	93.245
7,357.00	5,633.69	1,514.91	-553.27	16.92	13,595.33	5,892.00	7,533.41	-866.46	73.05	6,028.16	5,963.75	-178.16	93.592
7,446.00	5,633.63	1,603.88	-555.08	17.43	13,595.33	5,892.00	7,533.41	-866.46	73.05	5,939.24	5,851.80	-111.89	67.922
7,536.00	5,633.80	1,693.86	-553.26	17.97	13,595.33	5,892.00	7,533.41	-866.46	73.05	5,849.50	5,759.31	-101.41	64.853
7,625.00	5,633.77	1,782.78	-549.52	18.53	13,595.33	5,892.00	7,533.41	-866.46	73.05	5,760.94	5,671.02	-105.43	64.069
7,715.00	5,633.15	1,872.64	-544.66	19.13	13,595.33	5,892.00	7,533.41	-866.46	73.05	5,671.53	5,581.00	-105.64	62.653
7,804.00	5,632.58	1,961.42	-538.43	19.74	13,595.33	5,892.00	7,533.41	-866.46	73.05	5,583.30	5,491.70	-101.79	60.957
7,894.00	5,632.36	2,051.28	-533.76	20.38	13,595.33	5,892.00	7,533.41	-866.46	73.05	5,493.91	5,402.15	-106.98	59.871
7,983.00	5,632.33	2,140.25	-531.42	21.03	13,595.33	5,892.00	7,533.41	-866.46	73.05	5,405.28	5,312.61	-105.39	58.324
8,073.00	5,631.53	2,230.22	-529.75	21.71	13,595.33	5,892.00	7,533.41	-866.46	73.05	5,315.64	5,227.85	-122.89	60.550
8,160.00	5,630.39	2,317.21	-530.39	22.39	13,595.33	5,892.00	7,533.41	-866.46	73.05	5,228.84	5,142.33	-127.24	60.439
8,250.00	5,629.66	2,407.19	-531.98	23.10	13,595.33	5,892.00	7,533.41	-866.46	73.05	5,139.00	5,051.10	-125.56	58.467
8,339.00	5,631.29	2,496.12	-534.84	23.81	13,595.33	5,892.00	7,533.41	-866.46	73.05	5,050.06	4,962.50	-52.91	57.673
8,427.00	5,634.25	2,584.03	-537.46	24.52	13,595.33	5,892.00	7,533.41	-866.46	73.05	4,962.13	4,864.06	-92.74	50.599
8,519.00	5,634.54	2,676.01	-536.48	25.26	13,595.33	5,892.00	7,533.41	-866.46	73.05	4,870.45	4,776.14	-113.97	51.645
8,611.00	5,632.12	2,767.93	-533.73	26.00	13,595.33	5,892.00	7,533.41	-866.46	73.05	4,779.03	4,688.03	-123.69	52.517

**Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1**

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

Offset Design: Sec. 21-T10N-R58W - Razor #21D-2804B - Customer Supplied Plan - Customer Supplied Plan

Scan Range: 0.00 to 13,179.06 usft. Measured Depth.

Scan Radius is 9,999.98 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
8,703.00	5,629.56	2,859.87	-531.44	26.74	13,595.33	5,892.00	7,533.41	-866.46	73.05	4,687.60	4,593.28	-117.70	49.697
8,795.00	5,628.84	2,951.85	-530.93	27.50	13,595.33	5,892.00	7,533.41	-866.46	73.05	4,595.95	4,498.92	-112.94	47.365
8,887.00	5,629.56	3,043.83	-533.07	28.29	13,595.33	5,892.00	7,533.41	-866.46	73.05	4,504.10	4,407.57	-116.31	46.664
8,980.00	5,630.16	3,136.77	-536.18	29.08	13,595.33	5,892.00	7,533.41	-866.46	73.05	4,411.20	4,318.17	-125.46	47.417
9,071.00	5,630.87	3,227.71	-539.44	29.85	13,595.33	5,892.00	7,533.41	-866.46	73.05	4,320.30	4,222.26	-116.08	44.066
9,163.00	5,633.00	3,319.66	-541.53	30.61	13,595.33	5,892.00	7,533.41	-866.46	73.05	4,228.44	4,124.22	-89.01	40.571
9,253.00	5,635.48	3,409.62	-541.25	31.36	13,595.33	5,892.00	7,533.41	-866.46	73.05	4,138.74	4,034.15	-96.39	39.572
9,345.00	5,636.36	3,501.59	-539.43	32.13	13,595.33	5,892.00	7,533.41	-866.46	73.05	4,047.22	3,944.47	-108.49	39.390
9,436.00	5,635.97	3,592.58	-537.95	32.90	13,595.33	5,892.00	7,533.41	-866.46	73.05	3,956.73	3,854.93	-113.50	38.868
9,528.00	5,636.55	3,684.58	-537.56	33.69	13,595.33	5,892.00	7,533.41	-866.46	73.05	3,865.12	3,758.72	-100.40	36.327
9,620.00	5,638.86	3,776.54	-537.06	34.47	13,595.33	5,892.00	7,533.41	-866.46	73.05	3,773.51	3,665.48	-91.63	34.928
9,711.00	5,640.63	3,867.50	-535.13	35.24	13,595.33	5,892.00	7,533.41	-866.46	73.05	3,683.08	3,575.79	-102.78	34.330
9,803.00	5,640.74	3,959.44	-531.68	36.02	13,595.33	5,892.00	7,533.41	-866.46	73.05	3,591.90	3,484.93	-106.58	33.579
9,894.00	5,641.49	4,050.39	-528.95	36.81	13,595.33	5,892.00	7,533.41	-866.46	73.05	3,501.65	3,391.76	-97.52	31.864
9,985.00	5,643.18	4,141.36	-527.59	37.60	13,595.33	5,892.00	7,533.41	-866.46	73.05	3,411.24	3,301.10	-100.79	30.970
10,000.00	5,643.51	4,156.35	-527.34	37.68	13,595.33	5,892.00	7,533.41	-866.46	73.05	3,396.35	3,285.22	-93.67	30.562
10,029.66	5,644.79	4,185.97	-526.53	37.77	13,595.33	5,892.00	7,533.41	-866.46	73.05	3,366.93	3,256.44	-81.85	30.472
10,100.00	5,648.67	4,256.19	-525.37	37.98	13,595.33	5,892.00	7,533.41	-866.46	73.05	3,297.10	3,186.44	-80.49	29.793
10,129.86	5,650.25	4,286.01	-525.65	38.07	13,595.33	5,892.00	7,533.41	-866.46	73.05	3,267.38	3,156.75	-79.62	29.534
10,160.81	5,651.74	4,316.92	-526.09	38.17	13,595.33	5,892.00	7,533.41	-866.46	73.05	3,236.56	3,124.97	-85.43	29.004
10,200.00	5,653.46	4,356.07	-526.51	38.29	13,595.33	5,892.00	7,533.41	-866.46	73.05	3,197.55	3,085.83	-85.43	28.622
10,300.00	5,657.85	4,455.97	-527.59	38.63	13,595.33	5,892.00	7,533.41	-866.46	73.05	3,098.03	2,985.98	-85.43	27.649
10,400.00	5,662.23	4,555.87	-528.66	38.99	13,595.33	5,892.00	7,533.41	-866.46	73.05	2,998.53	2,886.13	-85.43	26.676
10,500.00	5,666.62	4,655.77	-529.74	39.37	13,595.33	5,892.00	7,533.41	-866.46	73.05	2,899.08	2,786.29	-85.43	25.705
10,600.00	5,671.00	4,755.66	-530.82	39.77	13,595.33	5,892.00	7,533.41	-866.46	73.05	2,799.66	2,686.47	-85.43	24.736
10,700.00	5,675.39	4,855.56	-531.89	40.19	13,595.33	5,892.00	7,533.41	-866.46	73.05	2,700.28	2,586.68	-85.43	23.770
10,800.00	5,679.77	4,955.46	-532.97	40.63	13,595.33	5,892.00	7,533.41	-866.46	73.05	2,600.95	2,486.91	-85.43	22.808
10,900.00	5,684.16	5,055.36	-534.04	41.08	13,595.33	5,892.00	7,533.41	-866.46	73.05	2,501.68	2,387.18	-85.43	21.850
10,919.26	5,685.00	5,074.60	-534.25	41.17	13,595.33	5,892.00	7,533.41	-866.46	73.05	2,482.56	2,367.98	-85.43	21.666
10,975.26	5,687.01	5,130.56	-534.54	41.44	13,595.33	5,892.00	7,533.41	-866.46	73.05	2,427.04	2,312.02	-92.52	21.101
11,000.00	5,687.70	5,155.29	-534.53	41.56	13,595.33	5,892.00	7,533.41	-866.46	73.05	2,402.54	2,287.40	-92.52	20.867
11,100.00	5,690.48	5,255.25	-534.48	42.05	13,595.33	5,892.00	7,533.41	-866.46	73.05	2,303.55	2,187.92	-92.52	19.922
11,200.00	5,693.27	5,355.21	-534.44	42.56	13,595.33	5,892.00	7,533.41	-866.46	73.05	2,204.65	2,088.51	-92.52	18.983
11,300.00	5,696.05	5,455.17	-534.39	43.09	13,595.33	5,892.00	7,533.41	-866.46	73.05	2,105.85	1,989.19	-92.52	18.050
11,400.00	5,698.83	5,555.14	-534.35	43.63	13,595.33	5,892.00	7,533.41	-866.46	73.05	2,007.17	1,889.97	-92.52	17.125
11,500.00	5,701.62	5,655.10	-534.30	44.18	13,595.33	5,892.00	7,533.41	-866.46	73.05	1,908.64	1,790.87	-92.52	16.207
11,600.00	5,704.40	5,755.06	-534.26	44.76	13,595.33	5,892.00	7,533.41	-866.46	73.05	1,810.26	1,691.92	-92.52	15.297
11,621.40	5,705.00	5,776.45	-534.25	44.88	13,595.33	5,892.00	7,533.41	-866.46	73.05	1,789.23	1,670.77	-92.52	15.104
11,703.35	5,706.11	5,858.39	-534.23	45.36	13,595.33	5,892.00	7,533.41	-866.46	73.05	1,708.80	1,591.01	-100.86	14.507
11,800.00	5,706.04	5,955.04	-534.23	45.94	13,595.33	5,892.00	7,533.41	-866.46	73.05	1,614.17	1,495.81	-100.86	13.638
11,900.00	5,705.96	6,055.04	-534.23	46.55	13,595.33	5,892.00	7,533.41	-866.46	73.05	1,516.54	1,397.58	-100.86	12.748
12,000.00	5,705.89	6,155.04	-534.24	47.18	13,595.33	5,892.00	7,533.41	-866.46	73.05	1,419.23	1,299.66	-100.86	11.869
12,100.00	5,705.81	6,255.04	-534.24	47.81	13,595.33	5,892.00	7,533.41	-866.46	73.05	1,322.33	1,202.13	-100.86	11.001
12,200.00	5,705.74	6,355.04	-534.24	48.46	13,595.33	5,892.00	7,533.41	-866.46	73.05	1,225.92	1,105.08	-100.86	10.145
12,300.00	5,705.66	6,455.04	-534.24	49.12	13,595.33	5,892.00	7,533.41	-866.46	73.05	1,130.14	1,008.65	-100.86	9.302
12,400.00	5,705.59	6,555.04	-534.24	49.79	13,595.33	5,892.00	7,533.41	-866.46	73.05	1,035.16	913.01	-100.86	8.475
12,500.00	5,705.51	6,655.04	-534.24	50.47	13,595.33	5,892.00	7,533.41	-866.46	73.05	941.22	818.40	-100.86	7.663
12,600.00	5,705.44	6,755.04	-534.24	51.16	13,595.33	5,892.00	7,533.41	-866.46	73.05	848.66	725.16	-100.86	6.872
12,700.00	5,705.36	6,855.04	-534.24	51.86	13,595.33	5,892.00	7,533.41	-866.46	73.05	758.00	633.81	-100.86	6.104
12,800.00	5,705.29	6,955.04	-534.25	52.57	13,595.33	5,892.00	7,533.41	-866.46	73.05	670.00	545.11	-100.86	5.365
12,900.00	5,705.21	7,055.04	-534.25	53.28	13,595.33	5,892.00	7,533.41	-866.46	73.05	585.86	460.27	-100.86	4.665
13,000.00	5,705.13	7,155.04	-534.25	54.01	13,595.33	5,892.00	7,533.41	-866.46	73.05	507.51	381.20	-100.86	4.018



Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)  
Offset Design: Sec. 21-T10N-R58W - Razor #21D-2804B - Customer Supplied Plan - Customer Supplied Plan  
Scan Range: 0.00 to 13,179.06 usft. Measured Depth.  
Scan Radius is 9,999.98 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)					
13,100.00	5,705.06	7,255.04	-534.25	54.74	13,595.33	5,892.00	7,533.41	-866.46	73.05	438.06	311.03	-100.86	3.449
13,179.06	5,705.00	7,334.10	-534.25	55.33	13,595.33	5,892.00	7,533.41	-866.46	73.05	392.60	265.00	-100.86	3.077

**Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1**

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

Offset Design: Sec. 21-T10N-R58W - Razor 21B-2809A - Plan D - Actual Field Surveys

Scan Range: 0.00 to 13,179.06 usft. Measured Depth.

Scan Radius is 9,999.98 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
140.00	140.00	0.06	-0.83	3.29	12,791.00	5,805.24	7,575.55	808.91	63.34	9,423.44	9,398.44	92.69	376.879
231.00	230.99	0.08	-1.69	3.31	12,791.00	5,805.24	7,575.55	808.91	63.34	9,370.23	9,345.27	97.92	375.394
323.00	322.99	0.31	-2.59	3.33	12,791.00	5,805.24	7,575.55	808.91	63.34	9,316.87	9,291.82	74.07	371.944
416.00	415.97	-0.06	-4.30	3.37	12,791.00	5,805.24	7,575.55	808.91	63.34	9,264.12	9,238.91	125.13	367.450
508.00	507.90	-1.97	-7.39	3.42	12,791.00	5,805.24	7,575.55	808.91	63.34	9,213.98	9,188.52	131.15	361.986
600.00	599.70	-5.52	-12.14	3.48	12,791.00	5,805.24	7,575.55	808.91	63.34	9,166.06	9,140.36	137.07	356.755
692.00	691.35	-10.46	-18.52	3.55	12,791.00	5,805.24	7,575.55	808.91	63.34	9,120.21	9,094.25	135.42	351.356
784.00	782.81	-16.17	-26.58	3.64	12,791.00	5,805.24	7,575.55	808.91	63.34	9,075.96	9,049.72	133.39	345.825
874.00	871.96	-23.21	-36.68	3.74	12,791.00	5,805.24	7,575.55	808.91	63.34	9,034.96	9,008.35	135.38	339.532
965.00	961.77	-31.86	-48.48	3.86	12,791.00	5,805.24	7,575.55	808.91	63.34	8,995.87	8,969.13	137.10	336.434
1,057.00	1,052.50	-40.89	-60.78	3.99	12,791.00	5,805.24	7,575.55	808.91	63.34	8,957.42	8,930.52	135.67	333.063
1,149.00	1,143.20	-49.95	-73.25	4.12	12,791.00	5,805.24	7,575.55	808.91	63.34	8,919.81	8,892.80	136.67	330.256
1,241.00	1,233.88	-59.28	-85.68	4.26	12,791.00	5,805.24	7,575.55	808.91	63.34	8,883.23	8,856.11	137.30	327.607
1,332.00	1,323.60	-68.54	-97.71	4.39	12,791.00	5,805.24	7,575.55	808.91	63.34	8,847.83	8,820.63	138.00	325.297
1,423.00	1,413.42	-77.25	-109.47	4.53	12,791.00	5,805.24	7,575.55	808.91	63.34	8,812.68	8,785.33	134.98	322.196
1,484.00	1,473.69	-82.79	-117.06	4.62	12,791.00	5,805.24	7,575.55	808.91	63.34	8,789.24	8,761.88	137.14	321.262
1,611.00	1,599.26	-94.33	-132.18	4.74	12,791.00	5,805.24	7,575.55	808.91	63.34	8,741.49	8,714.25	137.10	320.838
1,704.00	1,691.13	-102.26	-144.25	4.77	12,791.00	5,805.24	7,575.55	808.91	63.34	8,707.23	8,679.72	130.08	316.441
1,796.00	1,781.89	-110.16	-157.00	4.80	12,791.00	5,805.24	7,575.55	808.91	63.34	8,674.37	8,646.93	134.09	316.019
1,887.00	1,871.50	-120.44	-169.02	4.85	12,791.00	5,805.24	7,575.55	808.91	63.34	8,644.91	8,617.60	146.04	316.534
1,980.00	1,962.98	-132.49	-180.64	4.92	12,791.00	5,805.24	7,575.55	808.91	63.34	8,617.05	8,589.72	145.41	315.310
2,071.00	2,052.62	-143.69	-191.59	4.99	12,791.00	5,805.24	7,575.55	808.91	63.34	8,590.04	8,562.66	145.10	313.712
2,163.00	2,143.29	-153.97	-203.29	5.07	12,791.00	5,805.24	7,575.55	808.91	63.34	8,562.74	8,535.14	137.12	310.233
2,255.00	2,234.11	-162.55	-215.27	5.16	12,791.00	5,805.24	7,575.55	808.91	63.34	8,534.77	8,507.11	133.97	308.532
2,347.00	2,324.89	-171.79	-226.97	5.26	12,791.00	5,805.24	7,575.55	808.91	63.34	8,508.30	8,480.62	141.97	307.398
2,438.00	2,414.52	-182.40	-238.54	5.37	12,791.00	5,805.24	7,575.55	808.91	63.34	8,484.41	8,456.66	142.69	305.772
2,531.00	2,506.19	-193.15	-249.91	5.49	12,791.00	5,805.24	7,575.55	808.91	63.34	8,460.77	8,432.96	143.55	304.213
2,620.00	2,593.96	-202.67	-261.22	5.61	12,791.00	5,805.24	7,575.55	808.91	63.34	8,438.38	8,410.34	136.44	300.918
2,711.00	2,683.71	-211.68	-273.26	5.74	12,791.00	5,805.24	7,575.55	808.91	63.34	8,415.79	8,387.67	137.17	299.252
2,802.00	2,773.53	-220.73	-284.71	5.88	12,791.00	5,805.24	7,575.55	808.91	63.34	8,394.05	8,365.86	139.29	297.704
2,894.00	2,864.51	-229.40	-295.27	6.02	12,791.00	5,805.24	7,575.55	808.91	63.34	8,372.39	8,344.13	138.97	296.194
2,985.00	2,954.56	-236.72	-306.10	6.16	12,791.00	5,805.24	7,575.55	808.91	63.34	8,350.77	8,322.21	129.33	292.471
3,076.00	3,044.53	-244.10	-317.58	6.30	12,791.00	5,805.24	7,575.55	808.91	63.34	8,330.25	8,301.65	136.06	291.324
3,168.00	3,135.20	-253.15	-330.19	6.45	12,791.00	5,805.24	7,575.55	808.91	63.34	8,312.19	8,283.37	135.51	288.485
3,260.00	3,225.56	-263.07	-344.41	6.61	12,791.00	5,805.24	7,575.55	808.91	63.34	8,296.24	8,267.27	134.76	286.352
3,353.00	3,316.86	-273.74	-358.47	6.79	12,791.00	5,805.24	7,575.55	808.91	63.34	8,281.71	8,252.66	139.96	285.079
3,444.00	3,406.34	-284.23	-371.32	6.96	12,791.00	5,805.24	7,575.55	808.91	63.34	8,268.36	8,239.16	138.53	283.121
3,536.00	3,496.87	-294.48	-384.11	7.14	12,791.00	5,805.24	7,575.55	808.91	63.34	8,255.47	8,226.11	138.88	281.164
3,626.00	3,585.70	-303.31	-395.48	7.31	12,791.00	5,805.24	7,575.55	808.91	63.34	8,242.46	8,212.98	136.43	279.563
3,719.00	3,677.83	-310.96	-405.64	7.49	12,791.00	5,805.24	7,575.55	808.91	63.34	8,228.29	8,198.66	137.24	277.705
3,811.00	3,769.12	-318.34	-414.30	7.66	12,791.00	5,805.24	7,575.55	808.91	63.34	8,214.87	8,185.16	143.54	276.503
3,903.00	3,860.26	-326.39	-423.78	7.83	12,791.00	5,805.24	7,575.55	808.91	63.34	8,203.26	8,173.30	137.65	273.833
3,994.00	3,950.18	-334.98	-434.88	8.01	12,791.00	5,805.24	7,575.55	808.91	63.34	8,193.68	8,163.56	137.55	272.069
4,086.00	4,040.81	-344.27	-447.60	8.21	12,791.00	5,805.24	7,575.55	808.91	63.34	8,185.89	8,155.58	135.06	270.035
4,177.00	4,130.25	-353.99	-461.30	8.40	12,791.00	5,805.24	7,575.55	808.91	63.34	8,179.93	8,149.44	135.75	268.299
4,268.00	4,219.89	-363.34	-473.86	8.61	12,791.00	5,805.24	7,575.55	808.91	63.34	8,174.40	8,143.74	137.64	266.633
4,361.00	4,311.75	-372.15	-485.38	8.81	12,791.00	5,805.24	7,575.55	808.91	63.34	8,168.82	8,137.97	137.05	264.842
4,453.00	4,402.85	-379.93	-495.56	9.01	12,791.00	5,805.24	7,575.55	808.91	63.34	8,163.19	8,132.17	137.57	263.170
4,545.00	4,494.14	-387.18	-504.32	9.20	12,791.00	5,805.24	7,575.55	808.91	63.34	8,157.82	8,126.64	141.57	261.668
4,637.00	4,585.54	-394.54	-511.79	9.39	12,791.00	5,805.24	7,575.55	808.91	63.34	8,153.38	8,122.04	147.14	260.211
4,729.00	4,677.01	-402.16	-518.13	9.57	12,791.00	5,805.24	7,575.55	808.91	63.34	8,150.03	8,118.54	152.99	258.808
4,821.00	4,768.60	-408.63	-523.80	9.75	12,791.00	5,805.24	7,575.55	808.91	63.34	8,146.46	8,114.80	143.14	257.267

**Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1**

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

Offset Design: Sec. 21-T10N-R58W - Razor 21B-2809A - Plan D - Actual Field Surveys

Scan Range: 0.00 to 13,179.06 usft. Measured Depth.

Scan Radius is 9,999.98 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
4,910.00	4,857.39	-412.15	-528.75	9.91	12,791.00	5,805.24	7,575.55	808.91	63.34	8,141.21	8,109.39	121.97	255.813
4,999.00	4,946.32	-413.18	-531.90	10.06	12,791.00	5,805.24	7,575.55	808.91	63.34	8,134.16	8,102.23	107.37	254.685
5,088.00	5,035.30	-413.28	-533.76	10.21	12,791.00	5,805.24	7,575.55	808.91	63.34	8,126.97	8,094.88	98.05	253.255
5,175.00	5,122.03	-407.44	-535.38	10.34	12,791.00	5,805.24	7,575.55	808.91	63.34	8,115.01	8,082.69	17.33	251.092
5,220.00	5,166.23	-399.21	-536.69	10.39	12,791.00	5,805.24	7,575.55	808.91	63.34	8,104.17	8,071.42	20.32	247.463
5,265.00	5,209.52	-387.10	-538.39	10.44	12,791.00	5,805.24	7,575.55	808.91	63.34	8,089.87	8,056.83	17.18	244.831
5,309.00	5,250.86	-372.07	-538.46	10.47	12,791.00	5,805.24	7,575.55	808.91	63.34	8,072.76	8,040.05	5.36	246.813
5,354.00	5,292.06	-354.13	-536.26	10.49	12,791.00	5,805.24	7,575.55	808.91	63.34	8,052.61	8,020.09	0.77	247.640
5,399.00	5,332.09	-333.71	-534.10	10.50	12,791.00	5,805.24	7,575.55	808.91	63.34	8,030.28	7,997.04	7.16	241.554
5,444.00	5,370.53	-310.36	-533.55	10.52	12,791.00	5,805.24	7,575.55	808.91	63.34	8,005.58	7,971.33	12.55	233.734
5,489.00	5,406.91	-283.89	-534.15	10.54	12,791.00	5,805.24	7,575.55	808.91	63.34	7,978.26	7,942.96	15.19	226.047
5,533.00	5,440.00	-254.93	-535.06	10.56	12,791.00	5,805.24	7,575.55	808.91	63.34	7,948.79	7,912.62	16.08	219.733
5,578.00	5,470.89	-222.24	-535.45	10.57	12,791.00	5,805.24	7,575.55	808.91	63.34	7,915.75	7,879.13	15.00	216.159
5,623.00	5,498.80	-186.96	-534.68	10.57	12,791.00	5,805.24	7,575.55	808.91	63.34	7,880.16	7,843.67	13.18	215.931
5,668.00	5,524.32	-149.92	-533.66	10.57	12,791.00	5,805.24	7,575.55	808.91	63.34	7,842.93	7,804.85	16.54	205.963
5,713.00	5,547.77	-111.52	-533.61	10.57	12,791.00	5,805.24	7,575.55	808.91	63.34	7,804.65	7,764.07	21.40	192.288
5,757.00	5,568.73	-72.84	-534.14	10.59	12,791.00	5,805.24	7,575.55	808.91	63.34	7,766.31	7,724.33	23.23	185.026
5,802.00	5,587.48	-31.96	-534.72	10.61	12,791.00	5,805.24	7,575.55	808.91	63.34	7,725.88	7,680.74	27.66	171.156
5,847.00	5,603.19	10.20	-535.38	10.64	12,791.00	5,805.24	7,575.55	808.91	63.34	7,684.31	7,635.79	32.25	158.368
5,891.00	5,616.19	52.23	-535.84	10.69	12,791.00	5,805.24	7,575.55	808.91	63.34	7,642.88	7,592.16	35.01	150.679
5,936.00	5,627.10	95.88	-536.14	10.75	12,791.00	5,805.24	7,575.55	808.91	63.34	7,599.88	7,543.75	42.69	135.396
5,979.00	5,634.47	138.23	-536.11	10.83	12,791.00	5,805.24	7,575.55	808.91	63.34	7,558.15	7,494.70	54.08	119.119
6,032.00	5,640.41	190.88	-535.23	10.95	12,791.00	5,805.24	7,575.55	808.91	63.34	7,506.14	7,438.95	60.97	111.719
6,105.00	5,644.89	263.70	-533.18	14.39	12,791.00	5,805.24	7,575.55	808.91	63.34	7,434.11	7,360.29	81.14	100.703
6,195.00	5,646.20	353.67	-531.47	14.45	12,791.00	5,805.24	7,575.55	808.91	63.34	7,345.32	7,270.59	91.64	98.285
6,284.00	5,646.62	442.67	-531.73	14.52	12,791.00	5,805.24	7,575.55	808.91	63.34	7,257.89	7,182.97	88.98	96.878
6,374.00	5,646.99	532.65	-533.44	14.60	12,791.00	5,805.24	7,575.55	808.91	63.34	7,169.79	7,094.63	91.73	95.391
6,463.00	5,646.43	621.57	-537.17	14.68	12,791.00	5,805.24	7,575.55	808.91	63.34	7,083.18	7,007.84	93.85	94.019
6,553.00	5,645.97	711.45	-541.76	14.78	12,791.00	5,805.24	7,575.55	808.91	63.34	6,995.85	6,920.03	91.14	92.272
6,642.00	5,644.43	800.41	-543.13	14.89	12,791.00	5,805.24	7,575.55	808.91	63.34	6,908.86	6,834.05	102.70	92.352
6,732.00	5,640.60	890.32	-542.27	15.00	12,791.00	5,805.24	7,575.55	808.91	63.34	6,820.57	6,746.17	105.98	91.675
6,819.00	5,637.37	977.26	-542.05	15.13	12,791.00	5,805.24	7,575.55	808.91	63.34	6,735.35	6,658.97	98.91	88.174
6,909.00	5,636.25	1,067.25	-541.81	15.29	12,791.00	5,805.24	7,575.55	808.91	63.34	6,647.18	6,569.68	92.16	85.773
6,998.00	5,635.81	1,156.24	-540.77	15.48	12,791.00	5,805.24	7,575.55	808.91	63.34	6,559.86	6,482.09	95.29	84.344
7,088.00	5,635.10	1,246.23	-540.55	15.73	12,791.00	5,805.24	7,575.55	808.91	63.34	6,471.78	6,393.30	93.48	82.459
7,177.00	5,634.71	1,335.15	-544.01	16.05	12,791.00	5,805.24	7,575.55	808.91	63.34	6,385.58	6,306.52	92.30	80.769
7,267.00	5,634.10	1,425.02	-548.94	16.46	12,791.00	5,805.24	7,575.55	808.91	63.34	6,298.86	6,219.26	94.01	79.132
7,357.00	5,633.69	1,514.91	-553.27	16.92	12,791.00	5,805.24	7,575.55	808.91	63.34	6,212.06	6,131.74	91.54	77.344
7,446.00	5,633.63	1,603.88	-555.08	17.43	12,791.00	5,805.24	7,575.55	808.91	63.34	6,125.70	6,044.81	92.99	75.737
7,536.00	5,633.80	1,693.86	-553.26	17.97	12,791.00	5,805.24	7,575.55	808.91	63.34	6,037.60	5,956.07	90.72	74.051
7,625.00	5,633.77	1,782.78	-549.52	18.53	12,791.00	5,805.24	7,575.55	808.91	63.34	5,950.16	5,868.30	95.05	72.694
7,715.00	5,633.15	1,872.64	-544.66	19.13	12,791.00	5,805.24	7,575.55	808.91	63.34	5,861.58	5,779.07	95.08	71.040
7,804.00	5,632.58	1,961.42	-538.43	19.74	12,791.00	5,805.24	7,575.55	808.91	63.34	5,773.80	5,690.88	95.81	69.635
7,894.00	5,632.36	2,051.28	-533.76	20.38	12,791.00	5,805.24	7,575.55	808.91	63.34	5,685.36	5,601.19	92.19	67.552
7,983.00	5,632.33	2,140.25	-531.42	21.03	12,791.00	5,805.24	7,575.55	808.91	63.34	5,598.39	5,513.63	93.10	66.055
8,073.00	5,631.53	2,230.22	-529.75	21.71	12,791.00	5,805.24	7,575.55	808.91	63.34	5,510.68	5,425.43	96.06	64.641
8,160.00	5,630.39	2,317.21	-530.39	22.39	12,791.00	5,805.24	7,575.55	808.91	63.34	5,426.51	5,340.38	94.36	63.006
8,250.00	5,629.66	2,407.19	-531.98	23.10	12,791.00	5,805.24	7,575.55	808.91	63.34	5,339.77	5,252.85	93.45	61.432
8,339.00	5,631.29	2,496.12	-534.84	23.81	12,791.00	5,805.24	7,575.55	808.91	63.34	5,254.46	5,167.11	84.23	60.157
8,427.00	5,634.25	2,584.03	-537.46	24.52	12,791.00	5,805.24	7,575.55	808.91	63.34	5,170.18	5,081.79	87.14	58.493
8,519.00	5,634.54	2,676.01	-536.48	25.26	12,791.00	5,805.24	7,575.55	808.91	63.34	5,081.17	4,992.52	96.91	57.315
8,611.00	5,632.12	2,767.93	-533.73	26.00	12,791.00	5,805.24	7,575.55	808.91	63.34	4,991.88	4,903.06	100.20	56.201

**Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1**

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

Offset Design: Sec. 21-T10N-R58W - Razor 21B-2809A - Plan D - Actual Field Surveys

Scan Range: 0.00 to 13,179.06 usft. Measured Depth.

Scan Radius is 9,999.98 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
8,703.00	5,629.56	2,859.87	-531.44	26.74	12,791.00	5,805.24	7,575.55	808.91	63.34	4,902.80	4,812.69	97.31	54.408
8,795.00	5,628.84	2,951.85	-530.93	27.50	12,791.00	5,805.24	7,575.55	808.91	63.34	4,814.26	4,722.77	91.31	52.623
8,887.00	5,629.56	3,043.83	-533.07	28.29	12,791.00	5,805.24	7,575.55	808.91	63.34	4,726.59	4,634.32	90.39	51.224
8,980.00	5,630.16	3,136.77	-536.18	29.08	12,791.00	5,805.24	7,575.55	808.91	63.34	4,638.45	4,545.42	91.69	49.859
9,071.00	5,630.87	3,227.71	-539.44	29.85	12,791.00	5,805.24	7,575.55	808.91	63.34	4,552.45	4,458.63	89.98	48.519
9,163.00	5,633.00	3,319.66	-541.53	30.61	12,791.00	5,805.24	7,575.55	808.91	63.34	4,465.33	4,370.87	86.35	47.271
9,253.00	5,635.48	3,409.62	-541.25	31.36	12,791.00	5,805.24	7,575.55	808.91	63.34	4,379.56	4,284.25	88.18	45.952
9,345.00	5,636.36	3,501.59	-539.43	32.13	12,791.00	5,805.24	7,575.55	808.91	63.34	4,291.58	4,195.56	92.77	44.697
9,436.00	5,635.97	3,592.58	-537.95	32.90	12,791.00	5,805.24	7,575.55	808.91	63.34	4,204.83	4,108.04	93.20	43.440
9,528.00	5,636.55	3,684.58	-537.56	33.69	12,791.00	5,805.24	7,575.55	808.91	63.34	4,117.67	4,019.96	89.04	42.145
9,620.00	5,638.86	3,776.54	-537.06	34.47	12,791.00	5,805.24	7,575.55	808.91	63.34	4,030.68	3,932.32	86.76	40.981
9,711.00	5,640.63	3,867.50	-535.13	35.24	12,791.00	5,805.24	7,575.55	808.91	63.34	3,944.38	3,845.19	90.86	39.765
9,803.00	5,640.74	3,959.44	-531.68	36.02	12,791.00	5,805.24	7,575.55	808.91	63.34	3,856.88	3,757.04	93.05	38.631
9,894.00	5,641.49	4,050.39	-528.95	36.81	12,791.00	5,805.24	7,575.55	808.91	63.34	3,770.76	3,669.96	88.58	37.408
9,985.00	5,643.18	4,141.36	-527.59	37.60	12,791.00	5,805.24	7,575.55	808.91	63.34	3,685.34	3,583.72	89.52	36.266
10,000.00	5,643.51	4,156.35	-527.34	37.68	12,791.00	5,805.24	7,575.55	808.91	63.34	3,671.28	3,569.68	87.34	36.134
10,029.66	5,644.79	4,185.97	-526.53	37.77	12,791.00	5,805.24	7,575.55	808.91	63.34	3,643.40	3,542.31	82.80	36.042
10,100.00	5,648.67	4,256.19	-525.37	37.98	12,791.00	5,805.24	7,575.55	808.91	63.34	3,577.69	3,476.13	84.01	35.228
10,129.86	5,650.25	4,286.01	-525.65	38.07	12,791.00	5,805.24	7,575.55	808.91	63.34	3,550.14	3,448.43	84.45	34.906
10,160.81	5,651.74	4,316.92	-526.09	38.17	12,791.00	5,805.24	7,575.55	808.91	63.34	3,521.66	3,419.72	85.49	34.545
10,200.00	5,653.46	4,356.07	-526.51	38.29	12,791.00	5,805.24	7,575.55	808.91	63.34	3,485.61	3,383.54	85.49	34.150
10,300.00	5,657.85	4,455.97	-527.59	38.63	12,791.00	5,805.24	7,575.55	808.91	63.34	3,393.94	3,291.54	85.49	33.143
10,400.00	5,662.23	4,555.87	-528.66	38.99	12,791.00	5,805.24	7,575.55	808.91	63.34	3,302.75	3,199.99	85.49	32.140
10,500.00	5,666.62	4,655.77	-529.74	39.37	12,791.00	5,805.24	7,575.55	808.91	63.34	3,212.09	3,108.95	85.49	31.144
10,600.00	5,671.00	4,755.66	-530.82	39.77	12,791.00	5,805.24	7,575.55	808.91	63.34	3,122.00	3,018.46	85.49	30.154
10,700.00	5,675.39	4,855.56	-531.89	40.19	12,791.00	5,805.24	7,575.55	808.91	63.34	3,032.53	2,928.57	85.49	29.171
10,800.00	5,679.77	4,955.46	-532.97	40.63	12,791.00	5,805.24	7,575.55	808.91	63.34	2,943.74	2,839.34	85.49	28.198
10,900.00	5,684.16	5,055.36	-534.04	41.08	12,791.00	5,805.24	7,575.55	808.91	63.34	2,855.68	2,750.83	85.49	27.236
10,919.26	5,685.00	5,074.60	-534.25	41.17	12,791.00	5,805.24	7,575.55	808.91	63.34	2,838.81	2,733.87	85.49	27.052
10,975.26	5,687.01	5,130.56	-534.54	41.44	12,791.00	5,805.24	7,575.55	808.91	63.34	2,789.78	2,684.42	87.05	26.479
11,000.00	5,687.70	5,155.29	-534.53	41.56	12,791.00	5,805.24	7,575.55	808.91	63.34	2,768.13	2,662.65	87.05	26.244
11,100.00	5,690.48	5,255.25	-534.48	42.05	12,791.00	5,805.24	7,575.55	808.91	63.34	2,681.15	2,575.18	87.05	25.301
11,200.00	5,693.27	5,355.21	-534.44	42.56	12,791.00	5,805.24	7,575.55	808.91	63.34	2,595.10	2,488.63	87.05	24.372
11,300.00	5,696.05	5,455.17	-534.39	43.09	12,791.00	5,805.24	7,575.55	808.91	63.34	2,510.10	2,403.09	87.05	23.458
11,400.00	5,698.83	5,555.14	-534.35	43.63	12,791.00	5,805.24	7,575.55	808.91	63.34	2,426.24	2,318.69	87.05	22.560
11,500.00	5,701.62	5,655.10	-534.30	44.18	12,791.00	5,805.24	7,575.55	808.91	63.34	2,343.64	2,235.54	87.05	21.680
11,600.00	5,704.40	5,755.06	-534.26	44.76	12,791.00	5,805.24	7,575.55	808.91	63.34	2,262.45	2,153.77	87.05	20.819
11,621.40	5,705.00	5,776.45	-534.25	44.88	12,791.00	5,805.24	7,575.55	808.91	63.34	2,245.27	2,136.47	87.05	20.637
11,703.35	5,706.11	5,858.39	-534.23	45.36	12,791.00	5,805.24	7,575.55	808.91	63.34	2,180.16	2,070.77	89.19	19.930
11,800.00	5,706.04	5,955.04	-534.23	45.94	12,791.00	5,805.24	7,575.55	808.91	63.34	2,104.88	1,994.91	89.19	19.140
11,900.00	5,705.96	6,055.04	-534.23	46.55	12,791.00	5,805.24	7,575.55	808.91	63.34	2,028.90	1,918.31	89.19	18.347
12,000.00	5,705.89	6,155.04	-534.24	47.18	12,791.00	5,805.24	7,575.55	808.91	63.34	1,955.07	1,843.86	89.19	17.580
12,100.00	5,705.81	6,255.04	-534.24	47.81	12,791.00	5,805.24	7,575.55	808.91	63.34	1,883.67	1,771.82	89.19	16.841
12,200.00	5,705.74	6,355.04	-534.24	48.46	12,791.00	5,805.24	7,575.55	808.91	63.34	1,814.97	1,702.47	89.19	16.133
12,300.00	5,705.66	6,455.04	-534.24	49.12	12,791.00	5,805.24	7,575.55	808.91	63.34	1,749.29	1,636.13	89.19	15.459
12,400.00	5,705.59	6,555.04	-534.24	49.79	12,791.00	5,805.24	7,575.55	808.91	63.34	1,686.98	1,573.15	89.19	14.820
12,500.00	5,705.51	6,655.04	-534.24	50.47	12,791.00	5,805.24	7,575.55	808.91	63.34	1,628.44	1,513.93	89.19	14.221
12,600.00	5,705.44	6,755.04	-534.24	51.16	12,791.00	5,805.24	7,575.55	808.91	63.34	1,574.07	1,458.87	89.19	13.664
12,700.00	5,705.36	6,855.04	-534.24	51.86	12,791.00	5,805.24	7,575.55	808.91	63.34	1,524.33	1,408.44	89.19	13.152
12,800.00	5,705.29	6,955.04	-534.25	52.57	12,791.00	5,805.24	7,575.55	808.91	63.34	1,479.69	1,363.09	89.19	12.689
12,900.00	5,705.21	7,055.04	-534.25	53.28	12,791.00	5,805.24	7,575.55	808.91	63.34	1,440.62	1,323.30	89.19	12.279
13,000.00	5,705.13	7,155.04	-534.25	54.01	12,791.00	5,805.24	7,575.55	808.91	63.34	1,407.58	1,289.53	89.19	11.923





Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)  
Offset Design: Sec. 21-T10N-R58W - Razor 21B-2809A - Plan D - Actual Field Surveys  
Scan Range: 0.00 to 13,179.06 usft. Measured Depth.  
Scan Radius is 9,999.98 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)					
13,100.00	5,705.06	7,255.04	-534.25	54.74	12,791.00	5,805.24	7,575.55	808.91	63.34	1,381.01	1,262.22	89.19	11.626
13,179.06	5,705.00	7,334.10	-534.25	55.33	12,791.00	5,805.24	7,575.55	808.91	63.34	1,364.83	1,245.46	89.19	11.433

**Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1**

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

Offset Design: Sec. 04-T9N-R58W - Rohn State #LD04-68HN - Existing Well - Existing Well\_No Surveys\_Plan Data Only

Scan Range: 0.00 to 13,179.06 usft. Measured Depth.

Scan Radius is 9,999.98 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
140.00	140.00	0.06	-0.83	3.29	157.00	157.00	-1,042.69	-1,437.51	5.01	1,775.21	1,765.95	-39.88	191.672
231.00	230.99	0.08	-1.69	3.31	247.99	247.99	-1,042.69	-1,437.51	5.02	1,774.53	1,765.24	-34.47	191.052
323.00	322.99	0.31	-2.59	3.33	339.99	339.99	-1,042.69	-1,437.51	5.04	1,773.94	1,764.61	-58.57	190.045
416.00	415.97	-0.06	-4.30	3.37	432.97	432.97	-1,042.69	-1,437.51	5.07	1,772.33	1,762.93	-7.93	188.521
508.00	507.90	-1.97	-7.39	3.42	524.90	524.90	-1,042.69	-1,437.51	5.11	1,768.71	1,759.22	-2.51	186.448
600.00	599.70	-5.52	-12.14	3.48	616.70	616.70	-1,042.69	-1,437.51	5.16	1,762.79	1,753.20	2.92	183.835
692.00	691.35	-10.46	-18.52	3.55	708.35	708.35	-1,042.69	-1,437.51	5.21	1,754.72	1,745.01	0.72	180.732
784.00	782.81	-16.17	-26.58	3.64	799.81	799.81	-1,042.69	-1,437.51	5.27	1,744.84	1,734.99	-1.89	177.235
874.00	871.96	-23.21	-36.68	3.74	888.96	888.96	-1,042.69	-1,437.51	5.34	1,732.54	1,722.56	-0.65	173.554
965.00	961.77	-31.86	-48.48	3.86	978.77	978.77	-1,042.69	-1,437.51	5.41	1,717.90	1,707.75	1.02	169.316
1,057.00	1,052.50	-40.89	-60.78	3.99	1,069.50	1,069.50	-1,042.69	-1,437.51	5.50	1,702.64	1,692.32	-0.54	164.878
1,149.00	1,143.20	-49.95	-73.25	4.12	1,160.20	1,160.20	-1,042.69	-1,437.51	5.58	1,687.23	1,676.71	0.48	160.414
1,241.00	1,233.88	-59.28	-85.68	4.26	1,250.88	1,250.88	-1,042.69	-1,437.51	5.68	1,671.69	1,660.97	1.18	155.908
1,332.00	1,323.60	-68.54	-97.71	4.39	1,340.60	1,340.60	-1,042.69	-1,437.51	5.77	1,656.51	1,645.58	2.03	151.531
1,423.00	1,413.42	-77.25	-109.47	4.53	1,430.42	1,430.42	-1,042.69	-1,437.51	5.88	1,641.88	1,630.72	-1.08	147.187
1,484.00	1,473.69	-82.79	-117.06	4.62	1,490.69	1,490.69	-1,042.69	-1,437.51	5.95	1,632.48	1,621.17	1.34	144.317
1,611.00	1,599.26	-94.33	-132.18	4.74	1,616.26	1,616.26	-1,042.69	-1,437.51	6.06	1,613.47	1,602.27	1.37	144.050
1,704.00	1,691.13	-102.26	-144.25	4.77	1,708.13	1,708.13	-1,042.69	-1,437.51	6.06	1,599.04	1,587.84	-6.45	142.736
1,796.00	1,781.89	-110.16	-157.00	4.80	1,798.89	1,798.89	-1,042.69	-1,437.51	6.08	1,584.08	1,572.85	-2.18	141.034
1,887.00	1,871.50	-120.44	-169.02	4.85	1,890.18	1,890.16	-1,043.81	-1,436.64	6.09	1,568.27	1,557.02	10.42	139.379
1,980.00	1,962.98	-132.49	-180.64	4.92	1,983.35	1,983.22	-1,047.31	-1,433.90	6.12	1,551.64	1,540.31	9.81	137.007
2,071.00	2,052.62	-143.69	-191.59	4.99	2,074.40	2,073.99	-1,053.04	-1,429.43	6.15	1,535.96	1,524.55	9.32	134.683
2,163.00	2,143.29	-153.97	-203.29	5.07	2,165.92	2,164.93	-1,061.08	-1,423.14	6.20	1,520.16	1,508.66	0.43	132.157
2,255.00	2,234.11	-162.55	-215.27	5.16	2,256.65	2,254.72	-1,071.31	-1,415.15	6.27	1,505.19	1,493.54	-3.20	129.238
2,347.00	2,324.89	-171.79	-226.97	5.26	2,346.53	2,343.22	-1,083.65	-1,405.52	6.36	1,490.12	1,478.35	4.47	126.538
2,438.00	2,414.52	-182.40	-238.54	5.37	2,434.58	2,429.44	-1,097.73	-1,394.51	6.47	1,474.49	1,462.53	4.60	123.283
2,531.00	2,506.19	-193.15	-249.91	5.49	2,524.53	2,517.39	-1,112.59	-1,382.91	6.60	1,459.14	1,446.96	4.88	119.765
2,620.00	2,593.96	-202.67	-261.22	5.61	2,611.06	2,602.05	-1,126.68	-1,371.90	6.75	1,444.82	1,432.41	-3.42	116.434
2,711.00	2,683.71	-211.68	-273.26	5.74	2,700.95	2,690.45	-1,139.51	-1,361.88	6.89	1,430.41	1,417.76	-3.27	113.126
2,802.00	2,773.53	-220.73	-284.71	5.88	2,791.95	2,780.42	-1,150.26	-1,353.48	7.03	1,416.48	1,403.59	-1.57	109.909
2,894.00	2,864.51	-229.40	-295.27	6.02	2,884.95	2,872.76	-1,158.92	-1,346.72	7.16	1,403.44	1,390.28	-2.18	106.689
2,985.00	2,954.56	-236.72	-306.10	6.16	2,977.51	2,964.97	-1,165.19	-1,341.82	7.29	1,390.98	1,377.60	-12.79	103.969
3,076.00	3,044.53	-244.10	-317.58	6.30	3,070.44	3,057.77	-1,169.12	-1,338.75	7.40	1,377.85	1,364.25	-6.07	101.342
3,168.00	3,135.20	-253.15	-330.19	6.45	3,164.42	3,151.73	-1,170.67	-1,337.54	7.50	1,362.57	1,348.81	-7.15	99.032
3,260.00	3,225.56	-263.07	-344.41	6.61	3,255.25	3,242.56	-1,170.70	-1,337.52	7.59	1,345.38	1,331.42	-8.08	96.378
3,353.00	3,316.86	-273.74	-358.47	6.79	3,346.56	3,333.86	-1,170.70	-1,337.52	7.68	1,327.80	1,313.63	-2.63	93.666
3,444.00	3,406.34	-284.23	-371.32	6.96	3,436.03	3,423.34	-1,170.70	-1,337.52	7.77	1,311.24	1,296.81	-4.08	90.893
3,536.00	3,496.87	-294.48	-384.11	7.14	3,526.56	3,513.87	-1,170.70	-1,337.52	7.87	1,294.89	1,280.24	-3.81	88.398
3,626.00	3,585.70	-303.31	-395.48	7.31	3,615.40	3,602.70	-1,170.70	-1,337.52	7.97	1,280.54	1,265.59	-6.13	85.677
3,719.00	3,677.83	-310.96	-405.64	7.49	3,707.52	3,694.83	-1,170.70	-1,337.52	8.08	1,267.89	1,252.69	-5.32	83.392
3,811.00	3,769.12	-318.34	-414.30	7.66	3,798.81	3,786.12	-1,170.70	-1,337.52	8.20	1,256.52	1,241.03	1.27	81.150
3,903.00	3,860.26	-326.39	-423.78	7.83	3,889.96	3,877.26	-1,170.70	-1,337.52	8.31	1,244.09	1,228.40	-5.05	79.296
3,994.00	3,950.18	-334.98	-434.88	8.01	3,979.87	3,967.18	-1,170.70	-1,337.52	8.43	1,230.11	1,214.15	-5.18	77.068
4,086.00	4,040.81	-344.27	-447.60	8.21	4,070.51	4,057.81	-1,170.70	-1,337.52	8.55	1,214.47	1,198.30	-8.06	75.113
4,177.00	4,130.25	-353.99	-461.30	8.40	4,159.94	4,147.25	-1,170.70	-1,337.52	8.67	1,197.82	1,181.35	-7.38	72.740
4,268.00	4,219.89	-363.34	-473.86	8.61	4,249.58	4,236.89	-1,170.70	-1,337.52	8.80	1,182.26	1,165.49	-5.47	70.502
4,361.00	4,311.75	-372.15	-485.38	8.81	4,341.45	4,328.75	-1,170.70	-1,337.52	8.93	1,167.83	1,150.73	-6.07	68.307
4,453.00	4,402.85	-379.93	-495.56	9.01	4,432.55	4,419.85	-1,170.70	-1,337.52	9.06	1,155.08	1,137.67	-5.56	66.348
4,545.00	4,494.14	-387.18	-504.32	9.20	4,523.84	4,511.14	-1,170.70	-1,337.52	9.20	1,143.73	1,126.00	-1.46	64.502
4,637.00	4,585.54	-394.54	-511.79	9.39	4,615.24	4,602.54	-1,170.70	-1,337.52	9.34	1,133.25	1,115.21	4.22	62.839
4,729.00	4,677.01	-402.16	-518.13	9.57	4,706.70	4,694.01	-1,170.70	-1,337.52	9.48	1,123.40	1,105.05	10.23	61.210
4,821.00	4,768.60	-408.63	-523.80	9.75	4,798.30	4,785.60	-1,170.70	-1,337.52	9.62	1,114.84	1,096.17	0.31	59.700

**Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1**

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

Offset Design: Sec. 04-T9N-R58W - Rohn State #LD04-68HN - Existing Well - Existing Well\_No Surveys\_Plan Data Only

Scan Range: 0.00 to 13,179.06 usft. Measured Depth.

Scan Radius is 9,999.98 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
4,910.00	4,857.39	-412.15	-528.75	9.91	4,887.08	4,874.39	-1,170.70	-1,337.52	9.77	1,108.82	1,089.83	-20.95	58.376
4,999.00	4,946.32	-413.18	-531.90	10.06	6,283.49	5,756.45	-1,152.34	-509.97	23.07	1,084.39	1,051.19	-85.31	32.662
5,088.00	5,035.30	-413.28	-533.76	10.21	6,281.01	5,756.46	-1,152.40	-512.45	23.03	1,021.07	987.75	-94.31	30.639
5,175.00	5,122.03	-407.44	-535.38	10.34	6,278.91	5,756.48	-1,152.44	-514.55	23.01	967.84	934.68	-174.69	29.186
5,220.00	5,166.23	-399.21	-536.69	10.39	6,277.48	5,756.49	-1,152.48	-515.98	22.99	946.82	914.15	-172.76	28.979
5,265.00	5,209.52	-387.10	-538.39	10.44	6,275.75	5,756.50	-1,152.51	-517.71	22.97	931.22	899.06	-175.76	28.961
5,309.00	5,250.86	-372.07	-538.46	10.47	6,275.72	5,756.50	-1,152.51	-517.74	22.97	921.03	889.50	-174.59	29.209
5,354.00	5,292.06	-354.13	-536.26	10.49	6,278.03	5,756.49	-1,152.46	-515.43	23.00	915.40	884.31	-170.87	29.438
5,382.27	5,317.38	-341.65	-534.71	10.50	6,279.68	5,756.47	-1,152.43	-513.78	23.02	914.31	883.72	-173.92	29.893
5,399.00	5,332.09	-333.71	-534.10	10.50	6,280.37	5,756.47	-1,152.41	-513.09	23.03	914.69	884.43	-175.52	30.229
5,444.00	5,370.53	-310.36	-533.55	10.52	6,281.16	5,756.46	-1,152.39	-512.29	23.04	919.56	890.30	-179.20	31.425
5,489.00	5,406.91	-283.89	-534.15	10.54	6,280.89	5,756.47	-1,152.40	-512.57	23.03	930.25	902.35	-179.49	33.340
5,533.00	5,440.00	-254.93	-535.06	10.56	6,280.39	5,756.47	-1,152.41	-513.07	23.03	946.38	919.95	-179.71	35.807
5,578.00	5,470.89	-222.24	-535.45	10.57	6,280.51	5,756.47	-1,152.41	-512.94	23.03	968.43	943.85	-178.14	39.394
5,623.00	5,498.80	-186.96	-534.68	10.57	6,281.87	5,756.46	-1,152.38	-511.59	23.05	995.23	972.07	-175.50	42.968
5,668.00	5,524.32	-149.92	-533.66	10.57	6,283.53	5,756.45	-1,152.34	-509.92	23.07	1,025.52	1,003.49	-176.76	46.552
5,713.00	5,547.77	-111.52	-533.61	10.57	6,284.27	5,756.44	-1,152.33	-509.19	23.08	1,058.59	1,037.53	-179.20	50.281
5,757.00	5,568.73	-72.84	-534.14	10.59	6,284.46	5,756.44	-1,152.32	-509.00	23.08	1,093.18	1,073.17	-178.98	54.630
5,802.00	5,587.48	-31.96	-534.72	10.61	6,284.66	5,756.44	-1,152.32	-508.80	23.08	1,130.92	1,112.53	-179.14	61.504
5,847.00	5,603.19	10.20	-535.38	10.64	6,284.81	5,756.44	-1,152.31	-508.65	23.08	1,170.78	1,153.66	-179.07	68.425
5,891.00	5,616.19	52.23	-535.84	10.69	6,285.20	5,756.44	-1,152.30	-508.26	23.09	1,211.13	1,194.99	-177.36	75.025
5,936.00	5,627.10	95.88	-536.14	10.75	6,285.79	5,756.43	-1,152.29	-507.67	23.10	1,253.54	1,238.49	-177.21	83.328
5,979.00	5,634.47	138.23	-536.11	10.83	6,286.71	5,756.42	-1,152.27	-506.75	23.11	1,295.09	1,281.44	-171.30	94.816
6,032.00	5,640.41	190.88	-535.23	10.95	6,288.71	5,756.41	-1,152.23	-504.75	23.13	1,347.10	1,333.59	-164.46	99.730
6,105.00	5,644.89	263.70	-533.18	14.39	6,292.35	5,756.39	-1,152.15	-501.11	23.18	1,419.36	1,404.39	-149.98	94.790
6,195.00	5,646.20	353.67	-531.47	14.45	6,296.04	5,756.36	-1,152.06	-497.42	23.23	1,509.00	1,494.93	-155.75	107.286
6,284.00	5,646.62	442.67	-531.73	14.52	6,297.75	5,756.35	-1,152.03	-495.71	23.25	1,597.80	1,584.98	-170.51	124.699
6,374.00	5,646.99	532.65	-533.44	14.60	6,298.04	5,756.35	-1,152.02	-495.42	23.25	1,687.63	1,674.07	-175.78	124.456
6,463.00	5,646.43	621.57	-537.17	14.68	6,296.28	5,756.36	-1,152.06	-497.18	23.23	1,776.51	1,756.78	-139.64	90.039
6,553.00	5,645.97	711.45	-541.76	14.78	6,293.69	5,756.38	-1,152.12	-499.78	23.20	1,866.38	1,849.60	-156.59	111.238
6,642.00	5,644.43	800.41	-543.13	14.89	6,294.30	5,756.37	-1,152.10	-499.16	23.20	1,955.31	1,932.46	-109.63	85.570
6,732.00	5,640.60	890.32	-542.27	15.00	6,297.19	5,756.35	-1,152.04	-496.28	23.24	2,045.26	2,020.46	-87.42	82.474
6,819.00	5,637.37	977.26	-542.05	15.13	6,299.36	5,756.34	-1,151.99	-494.11	23.27	2,132.23	2,113.19	-135.95	111.988
6,909.00	5,636.25	1,067.25	-541.81	15.29	6,301.60	5,756.32	-1,151.94	-491.87	23.30	2,222.14	2,205.73	-148.99	135.381
6,998.00	5,635.81	1,156.24	-540.77	15.48	6,304.61	5,756.30	-1,151.87	-488.85	23.34	2,311.02	2,290.28	-130.77	111.458
7,088.00	5,635.10	1,246.23	-540.55	15.73	6,306.83	5,756.28	-1,151.82	-486.63	23.37	2,400.92	2,386.93	-166.00	171.588
7,177.00	5,634.71	1,335.15	-544.01	16.05	6,305.35	5,756.29	-1,151.86	-488.12	23.35	2,489.84	2,466.22	-132.63	105.434
7,267.00	5,634.10	1,425.02	-548.94	16.46	6,302.41	5,756.31	-1,151.92	-491.05	23.31	2,579.74	2,558.32	-143.74	120.450
7,357.00	5,633.69	1,514.91	-553.27	16.92	6,300.09	5,756.33	-1,151.97	-493.38	23.28	2,669.65	2,648.04	-144.75	123.524
7,446.00	5,633.63	1,603.88	-555.08	17.43	6,300.25	5,756.33	-1,151.97	-493.21	23.28	2,758.57	2,737.32	-137.20	129.819
7,536.00	5,633.80	1,693.86	-553.26	17.97	6,304.06	5,756.30	-1,151.89	-489.41	23.33	2,848.41	2,824.85	-129.77	120.901
7,625.00	5,633.77	1,782.78	-549.52	18.53	6,309.77	5,756.26	-1,151.76	-483.70	23.41	2,937.17	2,909.06	-110.78	104.480
7,715.00	5,633.15	1,872.64	-544.66	19.13	6,316.63	5,756.22	-1,151.61	-476.84	23.51	3,026.87	2,998.06	-110.31	105.056
7,804.00	5,632.58	1,961.42	-538.43	19.74	6,324.83	5,756.16	-1,151.43	-468.64	23.63	3,115.45	3,085.23	-104.60	103.083
7,894.00	5,632.36	2,051.28	-533.76	20.38	6,331.49	5,756.11	-1,151.28	-461.98	23.72	3,205.14	3,179.81	-130.90	126.543
7,983.00	5,632.33	2,140.25	-531.42	21.03	6,335.81	5,756.08	-1,151.18	-457.66	23.78	3,293.98	3,264.82	-118.09	112.951
8,073.00	5,631.53	2,230.22	-529.75	21.71	6,339.47	5,756.06	-1,151.10	-454.00	23.83	3,383.88	3,355.17	-122.99	117.846
8,160.00	5,630.39	2,317.21	-530.39	22.39	6,340.77	5,756.05	-1,151.07	-452.70	23.85	3,470.85	3,453.69	-163.79	202.165
8,250.00	5,629.66	2,407.19	-531.98	23.10	6,341.19	5,756.04	-1,151.06	-452.29	23.86	3,560.83	3,544.54	-172.27	218.574
8,339.00	5,631.29	2,496.12	-534.84	23.81	6,340.28	5,756.05	-1,151.08	-453.19	23.84	3,649.71	3,629.17	-162.31	177.656
8,427.00	5,634.25	2,584.03	-537.46	24.52	6,339.60	5,756.06	-1,151.10	-453.88	23.83	3,737.53	3,720.66	-171.11	221.588
8,519.00	5,634.54	2,676.01	-536.48	25.26	6,342.61	5,756.03	-1,151.03	-450.87	23.88	3,829.42	3,792.80	-98.88	104.562

**Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1**

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

Offset Design: Sec. 04-T9N-R58W - Rohn State #LD04-68HN - Existing Well - Existing Well\_No Surveys\_Plan Data Only

Scan Range: 0.00 to 13,179.06 usft. Measured Depth.

Scan Radius is 9,999.98 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
8,611.00	5,632.12	2,767.93	-533.73	26.00	6,347.41	5,756.00	-1,150.92	-446.06	23.94	3,921.29	3,883.34	81.42	103.324
8,703.00	5,629.56	2,859.87	-531.44	26.74	6,351.76	5,755.97	-1,150.83	-441.72	24.01	4,013.19	3,974.88	97.41	104.760
8,795.00	5,628.84	2,951.85	-530.93	27.50	6,354.31	5,755.95	-1,150.77	-439.16	24.05	4,105.13	4,086.24	165.40	217.336
8,887.00	5,629.56	3,043.83	-533.07	28.29	6,354.21	5,755.95	-1,150.77	-439.26	24.04	4,197.07	4,175.50	-164.47	194.562
8,980.00	5,630.16	3,136.77	-536.18	29.08	6,353.16	5,755.96	-1,150.80	-440.32	24.03	4,290.02	4,265.19	-156.44	172.795
9,071.00	5,630.87	3,227.71	-539.44	29.85	6,351.91	5,755.97	-1,150.83	-441.56	24.01	4,380.96	4,356.60	-158.71	179.803
9,163.00	5,633.00	3,319.66	-541.53	30.61	6,351.84	5,755.97	-1,150.83	-441.63	24.01	4,472.85	4,452.95	166.40	224.727
9,253.00	5,635.48	3,409.62	-541.25	31.36	6,354.10	5,755.95	-1,150.78	-439.37	24.04	4,562.71	4,532.62	140.12	151.665
9,345.00	5,636.36	3,501.59	-539.43	32.13	6,357.96	5,755.93	-1,150.69	-435.52	24.10	4,654.58	4,613.75	112.41	114.020
9,436.00	5,635.97	3,592.58	-537.95	32.90	6,361.46	5,755.90	-1,150.61	-432.02	24.15	4,745.49	4,705.42	117.72	118.425
9,528.00	5,636.55	3,684.58	-537.56	33.69	6,363.88	5,755.89	-1,150.56	-429.60	24.19	4,837.42	4,810.12	149.86	177.154
9,620.00	5,638.86	3,776.54	-537.06	34.47	6,366.41	5,755.87	-1,150.50	-427.08	24.23	4,929.29	4,900.67	147.92	172.247
9,711.00	5,640.63	3,867.50	-535.13	35.24	6,370.34	5,755.84	-1,150.42	-423.14	24.29	5,020.13	4,977.56	116.15	117.935
9,803.00	5,640.74	3,959.44	-531.68	36.02	6,375.83	5,755.80	-1,150.29	-417.66	24.37	5,111.94	5,065.21	102.38	109.377
9,894.00	5,641.49	4,050.39	-528.95	36.81	6,380.57	5,755.77	-1,150.19	-412.92	24.45	5,202.78	5,166.68	135.54	144.139
9,985.00	5,643.18	4,141.36	-527.59	37.60	6,383.93	5,755.75	-1,150.12	-409.55	24.50	5,293.65	5,256.11	133.78	140.998
10,000.00	5,643.51	4,156.35	-527.34	37.68	6,384.51	5,755.74	-1,150.10	-408.98	24.51	5,308.63	5,273.14	138.06	149.579
10,029.66	5,644.79	4,185.97	-526.53	37.77	6,385.97	5,755.73	-1,150.07	-407.51	24.53	5,338.20	5,304.84	142.37	160.027
10,100.00	5,648.67	4,256.19	-525.37	37.98	6,388.66	5,755.71	-1,150.01	-404.82	24.57	5,408.30	5,384.48	163.78	227.030
10,129.86	5,650.25	4,286.01	-525.65	38.07	6,389.03	5,755.71	-1,150.00	-404.46	24.58	5,438.08	5,416.52	175.97	252.228
10,160.81	5,651.74	4,316.92	-526.09	38.17	6,389.26	5,755.71	-1,150.00	-404.22	24.58	5,468.97	5,446.61	169.09	244.596
10,200.00	5,653.46	4,356.07	-526.51	38.29	6,389.70	5,755.71	-1,149.99	-403.79	24.59	5,508.09	5,485.69	169.01	245.993
10,300.00	5,657.85	4,455.97	-527.59	38.63	6,390.81	5,755.70	-1,149.96	-402.68	24.60	5,607.91	5,585.43	168.82	249.450
10,400.00	5,662.23	4,555.87	-528.66	38.99	6,391.92	5,755.69	-1,149.94	-401.57	24.62	5,707.73	5,685.15	168.64	252.754
10,500.00	5,666.62	4,655.77	-529.74	39.37	6,393.03	5,755.68	-1,149.91	-400.46	24.64	5,807.57	5,784.87	168.45	255.900
10,600.00	5,671.00	4,755.66	-530.82	39.77	6,394.14	5,755.67	-1,149.89	-399.35	24.65	5,907.40	5,884.58	168.26	258.887
10,700.00	5,675.39	4,855.56	-531.89	40.19	6,395.24	5,755.67	-1,149.86	-398.25	24.67	6,007.25	5,984.29	168.08	261.713
10,800.00	5,679.77	4,955.46	-532.97	40.63	6,396.35	5,755.66	-1,149.84	-397.14	24.69	6,107.09	6,083.99	167.89	264.376
10,900.00	5,684.16	5,055.36	-534.04	41.08	6,397.46	5,755.65	-1,149.82	-396.03	24.70	6,206.95	6,183.69	167.70	266.876
10,919.26	5,685.00	5,074.60	-534.25	41.17	6,397.68	5,755.65	-1,149.81	-395.81	24.71	6,226.18	6,202.89	167.67	267.340
10,975.26	5,687.01	5,130.56	-534.54	41.44	6,398.61	5,755.64	-1,149.79	-394.88	24.72	6,282.12	6,249.59	147.83	193.143
11,000.00	5,687.70	5,155.29	-534.53	41.56	6,399.17	5,755.64	-1,149.78	-394.32	24.73	6,306.83	6,274.19	147.73	193.198
11,100.00	5,690.48	5,255.25	-534.48	42.05	6,401.41	5,755.62	-1,149.73	-392.08	24.77	6,406.74	6,373.61	147.32	193.346
11,200.00	5,693.27	5,355.21	-534.44	42.56	6,403.65	5,755.61	-1,149.68	-389.84	24.80	6,506.66	6,473.01	146.92	193.402
11,300.00	5,696.05	5,455.17	-534.39	43.09	6,405.89	5,755.59	-1,149.63	-387.60	24.84	6,606.57	6,572.41	146.52	193.371
11,400.00	5,698.83	5,555.14	-534.35	43.63	6,408.14	5,755.58	-1,149.58	-385.36	24.88	6,706.49	6,671.79	146.13	193.260
11,500.00	5,701.62	5,655.10	-534.30	44.18	6,410.38	5,755.56	-1,149.53	-383.12	24.91	6,806.41	6,771.15	145.74	193.075
11,600.00	5,704.40	5,755.06	-534.26	44.76	6,412.62	5,755.55	-1,149.48	-380.87	24.95	6,906.32	6,870.51	145.35	192.820
11,621.40	5,705.00	5,776.45	-534.25	44.88	6,413.10	5,755.54	-1,149.47	-380.39	24.96	6,927.71	6,891.77	145.27	192.758
11,703.35	5,706.11	5,858.39	-534.23	45.36	6,414.93	5,755.53	-1,149.43	-378.57	24.99	7,009.62	6,953.09	99.90	124.004
11,800.00	5,706.04	5,955.04	-534.23	45.94	6,417.07	5,755.51	-1,149.38	-376.43	25.02	7,106.25	7,049.12	99.76	124.401
11,900.00	5,705.96	6,055.04	-534.23	46.55	6,419.29	5,755.50	-1,149.33	-374.21	25.06	7,206.22	7,148.47	99.62	124.777
12,000.00	5,705.89	6,155.04	-534.24	47.18	6,421.50	5,755.48	-1,149.28	-371.99	25.09	7,306.20	7,247.80	99.49	125.120
12,100.00	5,705.81	6,255.04	-534.24	47.81	6,423.72	5,755.47	-1,149.23	-369.78	25.13	7,406.17	7,347.12	99.36	125.430
12,200.00	5,705.74	6,355.04	-534.24	48.46	6,425.94	5,755.45	-1,149.18	-367.56	25.17	7,506.14	7,446.44	99.23	125.711
12,300.00	5,705.66	6,455.04	-534.24	49.12	6,428.15	5,755.44	-1,149.13	-365.35	25.20	7,606.12	7,545.74	99.11	125.963
12,400.00	5,705.59	6,555.04	-534.24	49.79	6,430.37	5,755.42	-1,149.09	-363.13	25.24	7,706.09	7,645.03	98.98	126.189
12,500.00	5,705.51	6,655.04	-534.24	50.47	6,432.59	5,755.41	-1,149.04	-360.91	25.27	7,806.07	7,744.31	98.87	126.389
12,600.00	5,705.44	6,755.04	-534.24	51.16	6,434.80	5,755.39	-1,148.99	-358.70	25.31	7,906.04	7,843.58	98.75	126.567
12,700.00	5,705.36	6,855.04	-534.24	51.86	6,437.02	5,755.38	-1,148.94	-356.48	25.35	8,006.02	7,942.84	98.64	126.722
12,800.00	5,705.29	6,955.04	-534.25	52.57	6,439.24	5,755.36	-1,148.89	-354.26	25.38	8,105.99	8,042.09	98.53	126.856
12,900.00	5,705.21	7,055.04	-534.25	53.28	6,441.45	5,755.34	-1,148.84	-352.05	25.42	8,205.97	8,141.34	98.42	126.972



Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)  
Offset Design: Sec. 04-T9N-R58W - Rohn State #LD04-68HN - Existing Well - Existing Well\_No Surveys\_Plan Data Only  
Scan Range: 0.00 to 13,179.06 usft. Measured Depth.  
Scan Radius is 9,999.98 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	5,705.13	7,155.04	-534.25	54.01	6,443.67	5,755.33	-1,148.79	-349.83	25.46	8,305.94	8,240.58	98.32	127.069
13,100.00	5,705.06	7,255.04	-534.25	54.74	6,445.89	5,755.31	-1,148.74	-347.62	25.49	8,405.92	8,339.81	98.22	127.149
13,179.06	5,705.00	7,334.10	-534.25	55.33	6,447.64	5,755.30	-1,148.70	-345.86	25.52	8,484.96	8,418.25	98.14	127.202

**Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1**

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

Offset Design: Sec. 21-T10N-R58W - Razor 21B-2809A - Plan C - Actual Field Surveys

Scan Range: 0.00 to 13,179.06 usft. Measured Depth.

Scan Radius is 9,999.98 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
10,200.00	5,653.46	4,356.07	-526.51	38.29	6,115.00	5,783.80	14,235.79	900.38	12.89	9,982.23	9,931.92	74.63	198.408
10,300.00	5,657.85	4,455.97	-527.59	38.63	6,115.00	5,783.80	14,235.79	900.38	12.89	9,883.52	9,832.88	74.63	195.193
10,400.00	5,662.23	4,555.87	-528.66	38.99	6,115.00	5,783.80	14,235.79	900.38	12.89	9,784.83	9,733.86	74.63	191.939
10,500.00	5,666.62	4,655.77	-529.74	39.37	6,115.00	5,783.80	14,235.79	900.38	12.89	9,686.18	9,634.83	74.63	188.654
10,600.00	5,671.00	4,755.66	-530.82	39.77	6,115.00	5,783.80	14,235.79	900.38	12.89	9,587.55	9,535.82	74.63	185.344
10,700.00	5,675.39	4,855.56	-531.89	40.19	6,115.00	5,783.80	14,235.79	900.38	12.89	9,488.95	9,436.81	74.63	182.015
10,800.00	5,679.77	4,955.46	-532.97	40.63	6,115.00	5,783.80	14,235.79	900.38	12.89	9,390.38	9,337.82	74.63	178.674
10,900.00	5,684.16	5,055.36	-534.04	41.08	6,115.00	5,783.80	14,235.79	900.38	12.89	9,291.84	9,238.84	74.63	175.327
10,919.26	5,685.00	5,074.60	-534.25	41.17	6,115.00	5,783.80	14,235.79	900.38	12.89	9,272.86	9,219.77	74.63	174.683
10,975.26	5,687.01	5,130.56	-534.54	41.44	6,115.00	5,783.80	14,235.79	900.38	12.89	9,217.62	9,163.56	79.08	170.484
11,000.00	5,687.70	5,155.29	-534.53	41.56	6,115.00	5,783.80	14,235.79	900.38	12.89	9,193.20	9,139.01	79.08	169.668
11,100.00	5,690.48	5,255.25	-534.48	42.05	6,115.00	5,783.80	14,235.79	900.38	12.89	9,094.48	9,039.81	79.08	166.358
11,200.00	5,693.27	5,355.21	-534.44	42.56	6,115.00	5,783.80	14,235.79	900.38	12.89	8,995.78	8,940.61	79.08	163.058
11,300.00	5,696.05	5,455.17	-534.39	43.09	6,115.00	5,783.80	14,235.79	900.38	12.89	8,897.12	8,841.43	79.08	159.771
11,400.00	5,698.83	5,555.14	-534.35	43.63	6,115.00	5,783.80	14,235.79	900.38	12.89	8,798.48	8,742.26	79.08	156.502
11,500.00	5,701.62	5,655.10	-534.30	44.18	6,115.00	5,783.80	14,235.79	900.38	12.89	8,699.88	8,643.11	79.08	153.255
11,600.00	5,704.40	5,755.06	-534.26	44.76	6,115.00	5,783.80	14,235.79	900.38	12.89	8,601.31	8,543.98	79.08	150.033
11,621.40	5,705.00	5,776.45	-534.25	44.88	6,115.00	5,783.80	14,235.79	900.38	12.89	8,580.22	8,522.77	79.08	149.348
11,703.35	5,706.11	5,858.39	-534.23	45.36	6,115.00	5,783.80	14,235.79	900.38	12.89	8,499.45	8,440.71	88.59	144.702
11,800.00	5,706.04	5,955.04	-534.23	45.94	6,115.00	5,783.80	14,235.79	900.38	12.89	8,404.20	8,344.88	88.59	141.682
11,900.00	5,705.96	6,055.04	-534.23	46.55	6,115.00	5,783.80	14,235.79	900.38	12.89	8,305.69	8,245.76	88.59	138.589
12,000.00	5,705.89	6,155.04	-534.24	47.18	6,115.00	5,783.80	14,235.79	900.38	12.89	8,207.21	8,146.65	88.59	135.532
12,100.00	5,705.81	6,255.04	-534.24	47.81	6,115.00	5,783.80	14,235.79	900.38	12.89	8,108.77	8,047.58	88.59	132.511
12,200.00	5,705.74	6,355.04	-534.24	48.46	6,115.00	5,783.80	14,235.79	900.38	12.89	8,010.37	7,948.53	88.59	129.530
12,300.00	5,705.66	6,455.04	-534.24	49.12	6,115.00	5,783.80	14,235.79	900.38	12.89	7,912.01	7,849.50	88.59	126.589
12,400.00	5,705.59	6,555.04	-534.24	49.79	6,115.00	5,783.80	14,235.79	900.38	12.89	7,813.69	7,750.51	88.59	123.689
12,500.00	5,705.51	6,655.04	-534.24	50.47	6,115.00	5,783.80	14,235.79	900.38	12.89	7,715.41	7,651.56	88.59	120.831
12,600.00	5,705.44	6,755.04	-534.24	51.16	6,115.00	5,783.80	14,235.79	900.38	12.89	7,617.18	7,552.63	88.59	118.016
12,700.00	5,705.36	6,855.04	-534.24	51.86	6,115.00	5,783.80	14,235.79	900.38	12.89	7,518.99	7,453.75	88.59	115.245
12,800.00	5,705.29	6,955.04	-534.25	52.57	6,115.00	5,783.80	14,235.79	900.38	12.89	7,420.85	7,354.90	88.59	112.518
12,900.00	5,705.21	7,055.04	-534.25	53.28	6,115.00	5,783.80	14,235.79	900.38	12.89	7,322.77	7,256.10	88.59	109.836
13,000.00	5,705.13	7,155.04	-534.25	54.01	6,115.00	5,783.80	14,235.79	900.38	12.89	7,224.73	7,157.34	88.59	107.199
13,100.00	5,705.06	7,255.04	-534.25	54.74	6,115.00	5,783.80	14,235.79	900.38	12.89	7,126.75	7,058.62	88.59	104.606
13,179.06	5,705.00	7,334.10	-534.25	55.33	6,115.00	5,783.80	14,235.79	900.38	12.89	7,049.33	6,980.62	88.59	102.588

**Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1**

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

Offset Design: Sec. 33-T10N-R58W (Razor #33N Pad) - Razor #33N-2806 - Plan B - Actual Field Surveys

Scan Range: 0.00 to 13,179.06 usft. Measured Depth.

Scan Radius is 9,999.98 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)					
140.00	140.00	0.06	-0.83	3.29	139.98	139.98	-5.97	29.44	3.29	30.86	23.31	-172.65	4.088
231.00	230.99	0.08	-1.69	3.31	230.93	230.92	-5.57	29.64	3.31	31.84	24.26	-168.24	4.202
323.00	322.99	0.31	-2.59	3.33	322.99	322.99	-5.30	29.79	3.33	32.85	25.23	167.27	4.309
416.00	415.97	-0.06	-4.30	3.37	415.86	415.86	-5.14	29.96	3.37	34.63	26.94	-143.46	4.500
508.00	507.90	-1.97	-7.39	3.42	507.70	507.69	-4.85	30.38	3.42	37.88	30.09	-142.06	4.863
600.00	599.70	-5.52	-12.14	3.48	599.91	599.90	-5.03	30.42	3.47	42.56	34.66	-141.64	5.387
692.00	691.35	-10.46	-18.52	3.55	692.38	692.35	-6.66	29.34	3.53	48.02	39.99	-147.72	5.983
784.00	782.81	-16.17	-26.58	3.64	785.02	784.89	-10.21	26.92	3.61	53.88	45.71	-152.16	6.593
874.00	871.96	-23.21	-36.68	3.74	876.35	875.94	-16.04	22.78	3.70	60.02	51.69	-151.46	7.210
965.00	961.77	-31.86	-48.48	3.86	968.16	967.22	-23.82	16.84	3.79	66.05	57.53	-150.02	7.754
1,057.00	1,052.50	-40.89	-60.78	3.99	1,059.74	1,058.19	-32.18	10.44	3.90	71.98	63.25	-151.49	8.246
1,149.00	1,143.20	-49.95	-73.25	4.12	1,151.15	1,148.99	-40.97	4.48	4.01	78.46	69.50	-150.07	8.759
1,241.00	1,233.88	-59.28	-85.68	4.26	1,242.80	1,239.99	-50.16	-1.17	4.14	85.22	76.02	-148.95	9.259
1,332.00	1,323.60	-68.54	-97.71	4.39	1,333.29	1,329.87	-59.23	-6.56	4.27	91.84	82.39	-147.80	9.716
1,423.00	1,413.42	-77.25	-109.47	4.53	1,423.31	1,419.29	-68.35	-11.43	4.40	98.62	88.91	-150.20	10.155
1,484.00	1,473.69	-82.79	-117.06	4.62	1,484.67	1,480.25	-74.55	-14.68	4.49	102.93	93.03	-147.26	10.401
1,611.00	1,599.26	-94.33	-132.18	4.74	1,611.00	1,605.80	-86.59	-21.82	4.63	110.82	101.00	-146.65	11.286
1,704.00	1,691.13	-102.26	-144.25	4.77	1,707.67	1,701.76	-96.20	-28.54	4.64	116.36	106.53	-153.42	11.834
1,796.00	1,781.89	-110.16	-157.00	4.80	1,799.45	1,792.71	-105.64	-36.39	4.67	121.18	111.29	-148.34	12.254
1,887.00	1,871.50	-120.44	-169.02	4.85	1,888.66	1,881.11	-115.34	-43.34	4.70	126.15	116.19	-136.08	12.665
1,980.00	1,962.98	-132.49	-180.64	4.92	1,981.61	1,973.19	-126.16	-49.98	4.75	131.21	121.16	-137.08	13.049
2,071.00	2,052.62	-143.69	-191.59	4.99	2,072.53	2,063.28	-136.57	-56.57	4.81	135.62	125.46	-137.64	13.345
2,163.00	2,143.29	-153.97	-203.29	5.07	2,162.50	2,152.40	-147.38	-62.44	4.88	141.30	131.02	-145.59	13.744
2,255.00	2,234.11	-162.55	-215.27	5.16	2,251.98	2,241.20	-157.37	-67.02	4.95	148.51	138.08	-147.94	14.231
2,347.00	2,324.89	-171.79	-226.97	5.26	2,341.57	2,330.30	-166.09	-70.32	5.03	156.85	146.26	-139.75	14.811
2,438.00	2,414.52	-182.40	-238.54	5.37	2,432.12	2,420.44	-174.30	-73.05	5.11	165.79	155.03	-139.70	15.415
2,531.00	2,506.19	-193.15	-249.91	5.49	2,527.51	2,515.36	-182.98	-76.77	5.20	173.68	162.73	-139.42	15.872
2,620.00	2,593.96	-202.67	-261.22	5.61	2,618.72	2,606.05	-191.24	-81.87	5.30	180.12	169.00	-147.25	16.204
2,711.00	2,683.71	-211.68	-273.26	5.74	2,709.09	2,695.89	-199.33	-87.34	5.40	186.73	175.40	-146.57	16.491
2,802.00	2,773.53	-220.73	-284.71	5.88	2,798.97	2,785.27	-207.29	-92.45	5.51	193.09	181.55	-144.52	16.723
2,894.00	2,864.51	-229.40	-295.27	6.02	2,890.69	2,876.53	-214.95	-97.36	5.63	198.80	187.01	-144.87	16.862
2,985.00	2,954.56	-236.72	-306.10	6.16	2,982.86	2,968.28	-221.88	-102.81	5.76	204.29	192.28	-154.96	17.011
3,076.00	3,044.53	-244.10	-317.58	6.30	3,073.31	3,058.29	-228.77	-108.39	5.88	210.21	197.96	-148.03	17.163
3,168.00	3,135.20	-253.15	-330.19	6.45	3,163.49	3,147.90	-237.69	-113.28	6.00	217.83	205.35	-148.65	17.460
3,260.00	3,225.56	-263.07	-344.41	6.61	3,254.09	3,237.87	-247.40	-117.64	6.14	227.64	214.90	-149.30	17.870
3,353.00	3,316.86	-273.74	-358.47	6.79	3,346.57	3,329.72	-257.32	-121.89	6.28	237.50	224.46	-143.91	18.223
3,444.00	3,406.34	-284.23	-371.32	6.96	3,437.73	3,420.26	-266.96	-126.25	6.43	246.07	232.74	-145.42	18.464
3,536.00	3,496.87	-294.48	-384.11	7.14	3,529.69	3,511.59	-276.70	-130.84	6.57	254.33	240.71	-145.07	18.677
3,626.00	3,585.70	-303.31	-395.48	7.31	3,620.27	3,601.49	-286.80	-135.45	6.72	261.04	247.11	-147.07	18.736
3,719.00	3,677.83	-310.96	-405.64	7.49	3,715.46	3,695.86	-298.08	-140.83	6.88	265.73	251.47	-145.42	18.626
3,811.00	3,769.12	-318.34	-414.30	7.66	3,807.22	3,786.85	-308.36	-146.69	7.05	268.38	253.77	-138.26	18.375
3,903.00	3,860.26	-326.39	-423.78	7.83	3,896.78	3,875.89	-316.37	-151.93	7.21	272.48	257.58	-144.32	18.288
3,994.00	3,950.18	-334.98	-434.88	8.01	3,986.40	3,965.09	-323.71	-156.53	7.36	278.98	263.77	-144.61	18.342
4,086.00	4,040.81	-344.27	-447.60	8.21	4,078.82	4,056.99	-332.37	-161.16	7.53	287.14	271.62	-147.26	18.512
4,177.00	4,130.25	-353.99	-461.30	8.40	4,169.79	4,147.45	-340.66	-166.03	7.69	296.08	280.23	-146.77	18.689
4,268.00	4,219.89	-363.34	-473.86	8.61	4,260.38	4,237.52	-349.01	-170.89	7.86	303.82	287.64	-144.97	18.771
4,361.00	4,311.75	-372.15	-485.38	8.81	4,352.27	4,328.81	-358.31	-175.66	8.03	310.50	293.96	-145.40	18.767
4,453.00	4,402.85	-379.93	-495.56	9.01	4,443.72	4,419.78	-366.57	-180.23	8.21	316.06	299.16	-144.73	18.701
4,545.00	4,494.14	-387.18	-504.32	9.20	4,534.77	4,510.44	-373.64	-184.68	8.38	320.34	303.08	-140.66	18.566
4,637.00	4,585.54	-394.54	-511.79	9.39	4,625.12	4,600.48	-379.87	-188.80	8.55	323.67	306.07	-135.21	18.396
4,729.00	4,677.01	-402.16	-518.13	9.57	4,710.39	4,685.48	-385.92	-191.65	8.71	327.00	309.07	-129.48	18.242
4,821.00	4,768.60	-408.63	-523.80	9.75	4,799.20	4,774.01	-392.85	-193.10	8.87	331.12	312.85	-139.25	18.126

**Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1**

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

Offset Design: Sec. 33-T10N-R58W (Razor #33N Pad) - Razor #33N-2806 - Plan B - Actual Field Surveys

Scan Range: 0.00 to 13,179.06 usft. Measured Depth.

Scan Radius is 9,999.98 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
4,910.00	4,857.39	-412.15	-528.75	9.91	4,890.37	4,864.94	-399.33	-194.49	9.04	334.60	315.98	-159.96	17.976
4,999.00	4,946.32	-413.18	-531.90	10.06	4,982.99	4,957.41	-403.93	-196.90	9.22	335.32	316.36	-173.84	17.688
5,084.76	5,032.06	-413.28	-533.69	10.21	5,064.38	5,038.74	-405.95	-199.11	9.36	334.73	315.47	177.54	17.378
5,088.00	5,035.30	-413.28	-533.76	10.21	5,067.42	5,041.78	-406.00	-199.17	9.37	334.73	315.46	177.17	17.368
5,175.00	5,122.03	-407.44	-535.38	10.34	5,154.45	5,128.67	-402.87	-200.78	9.51	334.70	315.15	96.77	17.114
5,184.00	5,130.93	-406.15	-535.56	10.35	5,163.59	5,137.75	-401.81	-200.98	9.52	334.68	315.10	97.55	17.091
5,220.00	5,166.23	-399.21	-536.69	10.39	5,203.25	5,176.61	-394.18	-202.06	9.57	334.83	315.17	99.21	17.029
5,265.00	5,209.52	-387.10	-538.39	10.44	5,246.04	5,216.96	-380.08	-203.49	9.61	335.05	315.32	95.41	16.987
5,309.00	5,250.86	-372.07	-538.46	10.47	5,287.30	5,255.06	-364.25	-204.48	9.64	334.10	314.31	84.61	16.882
5,354.00	5,292.06	-354.13	-536.26	10.49	5,332.45	5,296.71	-346.87	-205.37	9.67	331.00	311.15	81.08	16.675
5,399.00	5,332.09	-333.71	-534.10	10.50	5,377.25	5,337.79	-329.03	-206.37	9.70	327.81	307.89	86.69	16.459
5,444.00	5,370.53	-310.36	-533.55	10.52	5,418.12	5,374.21	-310.50	-207.10	9.72	326.47	306.51	90.87	16.356
5,448.54	5,374.31	-307.84	-533.58	10.52	5,422.07	5,377.67	-308.60	-207.13	9.72	326.46	306.50	91.06	16.352
5,489.00	5,406.91	-283.89	-534.15	10.54	5,456.62	5,407.38	-290.97	-207.11	9.74	327.12	307.13	92.54	16.360
5,533.00	5,440.00	-254.93	-535.06	10.56	5,496.19	5,439.89	-268.44	-206.29	9.76	329.05	309.02	92.90	16.427
5,578.00	5,470.89	-222.24	-535.45	10.57	5,545.86	5,478.08	-236.73	-205.22	9.78	330.63	310.55	92.43	16.465
5,623.00	5,498.80	-186.96	-534.68	10.57	5,598.28	5,515.43	-199.98	-205.12	9.81	330.24	310.11	92.37	16.404
5,668.00	5,524.32	-149.92	-533.66	10.57	5,645.49	5,546.56	-164.50	-205.53	9.83	329.21	309.05	94.10	16.328
5,689.39	5,535.71	-131.82	-533.49	10.57	5,667.28	5,560.00	-147.35	-205.69	9.84	329.06	308.88	94.96	16.306
5,713.00	5,547.77	-111.52	-533.61	10.57	5,691.20	5,574.13	-128.05	-205.84	9.85	329.25	309.04	95.83	16.296
5,757.00	5,568.73	-72.84	-534.14	10.59	5,735.18	5,598.37	-91.37	-205.96	9.88	330.03	309.76	96.39	16.279
5,802.00	5,587.48	-31.96	-534.72	10.61	5,784.91	5,622.70	-48.01	-205.94	9.91	331.04	310.68	97.05	16.254
5,847.00	5,603.19	10.20	-535.38	10.64	5,836.03	5,644.85	-1.94	-206.58	9.95	331.65	311.17	97.81	16.188
5,891.00	5,616.19	52.23	-535.84	10.69	5,885.43	5,664.28	43.45	-207.78	10.02	331.68	311.05	98.53	16.078
5,936.00	5,627.10	95.88	-536.14	10.75	5,940.02	5,683.10	94.64	-210.01	10.12	330.91	310.09	99.67	15.896
5,979.00	5,634.47	138.23	-536.11	10.83	5,986.99	5,694.34	140.16	-212.20	10.24	329.41	308.40	100.27	15.685
6,032.00	5,640.41	190.88	-535.23	10.95	6,036.43	5,700.37	189.19	-213.27	10.37	327.50	306.27	100.41	15.421
6,105.00	5,644.89	263.70	-533.18	14.39	6,109.68	5,705.67	262.25	-213.83	10.59	325.09	303.52	100.73	15.073
6,195.00	5,646.20	353.67	-531.47	14.45	6,200.30	5,709.83	352.76	-214.38	12.32	323.41	301.43	101.35	14.714
6,209.37	5,646.22	368.04	-531.41	14.46	6,214.61	5,710.31	367.07	-214.43	12.97	323.39	301.35	101.43	14.670
6,284.00	5,646.62	442.67	-531.73	14.52	6,285.38	5,712.28	437.80	-214.28	13.98	324.21	301.88	101.70	14.524
6,374.00	5,646.99	532.65	-533.44	14.60	6,376.26	5,715.35	528.63	-213.59	14.04	327.09	304.34	102.07	14.378
6,463.00	5,646.43	621.57	-537.17	14.68	6,462.29	5,717.50	614.62	-213.19	14.10	331.75	308.43	102.36	14.226
6,553.00	5,645.97	711.45	-541.76	14.78	6,549.09	5,718.04	701.39	-211.06	14.17	338.61	314.73	102.33	14.176
6,642.00	5,644.43	800.41	-543.13	14.89	6,639.00	5,719.74	791.26	-208.87	14.24	342.76	318.33	102.66	14.027
6,732.00	5,640.60	890.32	-542.27	15.00	6,727.14	5,722.58	879.33	-206.92	14.31	345.40	320.21	103.65	13.714
6,819.00	5,637.37	977.26	-542.05	15.13	6,818.40	5,725.52	970.52	-205.24	14.39	348.22	322.26	104.64	13.414
6,909.00	5,636.25	1,067.25	-541.81	15.29	6,911.69	5,726.94	1,063.80	-204.21	14.48	349.58	322.78	105.04	13.043
6,998.00	5,635.81	1,156.24	-540.77	15.48	7,002.57	5,726.58	1,154.67	-203.47	14.61	349.30	321.58	105.07	12.599
7,026.85	5,635.54	1,185.09	-540.40	15.55	7,031.07	5,726.14	1,183.16	-203.21	14.65	349.15	321.09	105.04	12.441
7,088.00	5,635.10	1,246.23	-540.55	15.73	7,091.52	5,725.23	1,243.60	-202.55	14.78	349.82	321.03	104.93	12.150
7,177.00	5,634.71	1,335.15	-544.01	16.05	7,180.60	5,724.17	1,332.67	-201.53	15.05	353.98	324.01	104.66	11.809
7,267.00	5,634.10	1,425.02	-548.94	16.46	7,276.95	5,723.75	1,429.02	-201.82	15.49	358.54	327.43	104.47	11.523
7,357.00	5,633.69	1,514.91	-553.27	16.92	7,364.15	5,724.35	1,516.21	-202.60	15.99	362.20	329.95	104.51	11.230
7,446.00	5,633.63	1,603.88	-555.08	17.43	7,453.21	5,726.17	1,605.25	-203.35	16.56	363.70	330.41	104.74	10.927
7,536.00	5,633.80	1,693.86	-553.26	17.97	7,546.86	5,727.67	1,698.87	-204.70	17.18	361.02	326.59	105.07	10.486
7,625.00	5,633.77	1,782.78	-549.52	18.53	7,635.38	5,727.40	1,787.39	-205.83	17.78	356.25	320.69	105.30	10.019
7,715.00	5,633.15	1,872.64	-544.66	19.13	7,726.51	5,726.47	1,878.50	-206.96	18.44	350.41	313.61	105.51	9.520
7,804.00	5,632.58	1,961.42	-538.43	19.74	7,814.84	5,725.97	1,966.82	-208.57	19.09	342.87	304.94	105.92	9.041
7,894.00	5,632.36	2,051.28	-533.76	20.38	7,893.97	5,725.33	2,045.94	-208.30	19.68	338.52	299.19	105.94	8.606
7,983.00	5,632.33	2,140.25	-531.42	21.03	7,988.03	5,724.92	2,139.99	-207.33	20.39	337.05	296.42	105.96	8.295
8,073.00	5,631.53	2,230.22	-529.75	21.71	8,083.28	5,725.51	2,235.23	-208.64	21.14	334.62	292.54	106.33	7.953



**Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1**

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

Offset Design: Sec. 33-T10N-R58W (Razor #33N Pad) - Razor #33N-2806 - Plan B - Actual Field Surveys

Scan Range: 0.00 to 13,179.06 usft. Measured Depth.

Scan Radius is 9,999.98 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	
8,093.79	5,631.21	2,251.01	-529.76	21.87	8,101.33	5,725.64	2,253.28	-208.88	21.29	334.49	292.13	106.40	7.896	
8,160.00	5,630.39	2,317.21	-530.39	22.39	8,159.13	5,725.83	2,311.07	-208.56	21.74	335.74	292.43	106.51	7.753	
8,250.00	5,629.66	2,407.19	-531.98	23.10	8,250.32	5,726.53	2,402.25	-207.24	22.45	338.91	294.23	106.61	7.585	
8,339.00	5,631.29	2,496.12	-534.84	23.81	8,336.00	5,727.32	2,487.91	-205.67	23.14	342.99	296.90	106.44	7.442	
8,427.00	5,634.25	2,584.03	-537.46	24.52	8,418.35	5,726.53	2,570.20	-202.65	23.79	347.56	300.04	105.49	7.314	
8,519.00	5,634.54	2,676.01	-536.48	25.26	8,517.51	5,723.17	2,669.22	-198.61	24.57	349.37	300.33	104.71	7.124	
8,611.00	5,632.12	2,767.93	-533.73	26.00	8,618.74	5,719.37	2,770.36	-197.02	25.39	347.84	297.21	104.59	6.870	
8,703.00	5,629.56	2,859.87	-531.44	26.74	8,717.56	5,717.28	2,869.15	-198.16	26.23	344.76	292.64	104.82	6.615	
8,795.00	5,628.84	2,951.85	-530.93	27.50	8,816.07	5,717.13	2,967.58	-202.01	27.08	340.93	287.21	105.01	6.346	
8,887.00	5,629.56	3,043.83	-533.07	28.29	8,909.00	5,717.11	3,060.39	-206.74	27.86	338.27	283.01	104.99	6.121	
8,980.00	5,630.16	3,136.77	-536.18	29.08	8,998.10	5,717.66	3,149.39	-210.99	28.59	336.99	280.26	105.05	5.940	
9,002.20	5,630.25	3,158.96	-536.96	29.26	9,018.69	5,717.81	3,169.95	-211.78	28.76	336.94	279.87	105.06	5.904	
9,071.00	5,630.87	3,227.71	-539.44	29.85	9,081.53	5,718.11	3,232.78	-213.48	29.27	337.47	279.32	105.00	5.804	
9,163.00	5,633.00	3,319.66	-541.53	30.61	9,163.52	5,717.51	3,314.75	-213.18	29.95	339.09	279.48	104.47	5.689	
9,253.00	5,635.48	3,409.62	-541.25	31.36	9,259.77	5,716.30	3,410.99	-212.64	30.76	338.41	277.20	103.79	5.529	
9,345.00	5,636.36	3,501.59	-539.43	32.13	9,342.69	5,716.24	3,493.90	-211.80	31.46	337.31	274.67	103.70	5.385	
9,346.84	5,636.36	3,503.44	-539.38	32.15	9,344.43	5,716.25	3,495.64	-211.76	31.47	337.31	274.64	103.70	5.382	
9,436.00	5,635.97	3,592.58	-537.95	32.90	9,430.00	5,716.41	3,581.17	-209.11	32.18	338.73	274.58	103.73	5.280	
9,528.00	5,636.55	3,684.58	-537.56	33.69	9,518.20	5,715.43	3,669.27	-205.12	32.92	342.02	276.30	103.39	5.204	
9,620.00	5,638.86	3,776.54	-537.06	34.47	9,622.50	5,713.99	3,773.51	-201.82	33.82	343.47	275.98	102.63	5.089	
9,711.00	5,640.63	3,867.50	-535.13	35.24	9,718.60	5,714.93	3,869.60	-202.00	34.66	341.33	272.30	102.57	4.945	
9,803.00	5,640.74	3,959.44	-531.68	36.02	9,814.21	5,716.97	3,965.16	-203.75	35.50	336.73	266.27	103.12	4.779	
9,894.00	5,641.49	4,050.39	-528.95	36.81	9,903.32	5,718.47	4,054.24	-205.40	36.28	332.61	260.59	103.35	4.619	
9,985.00	5,643.18	4,141.36	-527.59	37.60	9,992.88	5,719.61	4,143.79	-206.55	37.05	330.02	256.47	103.37	4.487	
10,000.00	5,643.51	4,156.35	-527.34	37.68	10,007.55	5,719.75	4,158.46	-206.69	37.18	329.60	255.87	103.33	4.470	
10,029.66	5,644.79	4,185.97	-526.53	37.77	10,036.54	5,719.99	4,187.45	-206.91	37.43	328.35	254.33	103.11	4.436	
10,100.00	5,648.67	4,256.19	-525.37	37.98	10,105.37	5,720.29	4,256.27	-207.14	38.04	326.19	251.11	102.67	4.345	
10,117.53	5,649.60	4,273.70	-525.48	38.03	10,122.55	5,720.33	4,273.46	-207.14	38.19	326.10	250.77	102.54	4.329	
10,129.86	5,650.25	4,286.01	-525.65	38.07	10,134.63	5,720.36	4,285.54	-207.14	38.29	326.14	250.64	102.45	4.320	
10,160.81	5,651.74	4,316.92	-526.09	38.17	10,164.98	5,720.40	4,315.89	-207.07	38.56	326.32	250.41	102.17	4.299	
10,200.00	5,653.46	4,356.07	-526.51	38.29	10,203.68	5,720.42	4,354.58	-206.93	38.90	326.53	250.09	101.86	4.272	
10,300.00	5,657.85	4,455.97	-527.59	38.63	10,302.48	5,720.33	4,453.38	-206.27	39.77	327.34	249.54	101.04	4.207	
10,400.00	5,662.23	4,555.87	-528.66	38.99	10,403.56	5,720.03	4,554.46	-205.44	40.66	328.36	249.15	100.17	4.145	
10,500.00	5,666.62	4,655.77	-529.74	39.37	10,510.20	5,719.26	4,661.09	-205.75	41.57	328.28	247.61	99.21	4.069	
10,600.00	5,671.00	4,755.66	-530.82	39.77	10,607.41	5,718.68	4,758.30	-207.19	42.39	327.13	245.10	98.38	3.988	
10,700.00	5,675.39	4,855.56	-531.89	40.19	10,707.01	5,719.17	4,857.89	-207.89	43.23	326.95	243.56	97.70	3.921	
10,708.75	5,675.77	4,864.30	-531.99	40.22	10,715.00	5,719.20	4,865.88	-207.95	43.30	326.93	243.42	97.64	3.915	
10,800.00	5,679.77	4,955.46	-532.97	40.63	10,793.42	5,719.70	4,944.28	-206.96	43.97	328.63	243.98	97.09	3.882	
10,900.00	5,684.16	5,055.36	-534.04	41.08	10,905.29	5,721.28	5,056.12	-204.84	44.94	331.29	245.12	96.45	3.845	
10,919.26	5,685.00	5,074.60	-534.25	41.17	10,924.50	5,721.67	5,075.32	-204.93	45.11	331.36	244.92	96.37	3.833	
10,975.26	5,687.01	5,130.56	-534.54	41.44	10,980.35	5,722.91	5,131.16	-205.18	45.60	331.31	244.13	96.21	3.800	
11,000.00	5,687.70	5,155.29	-534.53	41.56	11,005.91	5,723.52	5,156.71	-205.31	45.82	331.17	243.64	96.20	3.784	
11,100.00	5,690.48	5,255.25	-534.48	42.05	11,109.82	5,725.68	5,260.58	-206.84	46.73	329.57	240.64	96.10	3.706	
11,200.00	5,693.27	5,355.21	-534.44	42.56	11,208.60	5,726.10	5,359.35	-208.33	47.60	327.78	237.43	95.73	3.628	
11,300.00	5,696.05	5,455.17	-534.39	43.09	11,311.55	5,722.46	5,462.22	-209.39	48.51	326.15	234.23	94.61	3.548	
11,400.00	5,698.83	5,555.14	-534.35	43.63	11,410.88	5,717.11	5,561.37	-211.59	49.37	323.34	229.88	93.21	3.460	
11,472.49	5,700.85	5,627.60	-534.32	44.03	11,476.61	5,714.93	5,627.06	-212.18	49.93	322.44	227.97	92.50	3.413	
11,500.00	5,701.62	5,655.10	-534.30	44.18	11,501.76	5,714.84	5,652.22	-212.02	50.15	322.57	227.72	92.36	3.401	
11,600.00	5,704.40	5,755.06	-534.26	44.76	11,596.14	5,716.15	5,746.57	-210.61	50.96	323.98	227.74	92.12	3.366	
11,621.40	5,705.00	5,776.45	-534.25	44.88	11,615.90	5,716.82	5,766.31	-210.06	51.12	324.56	228.03	92.14	3.362	
11,703.35	5,706.11	5,858.39	-534.23	45.36	11,705.39	5,721.16	5,855.67	-208.20	51.90	326.39	228.63	92.64	3.338	
11,800.00	5,706.04	5,955.04	-534.23	45.94	11,797.75	5,726.26	5,947.88	-207.40	52.72	327.54	228.44	93.54	3.305	

**Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1**

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

Offset Design: Sec. 33-T10N-R58W (Razor #33N Pad) - Razor #33N-2806 - Plan B - Actual Field Surveys

Scan Range: 0.00 to 13,179.06 usft. Measured Depth.

Scan Radius is 9,999.98 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
11,900.00	5,705.96	6,055.04	-534.23	46.55	11,895.95	5,729.72	6,045.99	-205.07	53.59	330.14	229.63	94.13	3.284
12,000.00	5,705.89	6,155.04	-534.24	47.18	11,993.74	5,728.93	6,143.70	-201.57	54.46	333.66	231.63	93.96	3.270
12,100.00	5,705.81	6,255.04	-534.24	47.81	12,098.02	5,727.80	6,247.94	-198.56	55.39	336.47	232.86	93.75	3.247
12,200.00	5,705.74	6,355.04	-534.24	48.46	12,207.02	5,727.45	6,356.93	-197.57	56.37	337.37	232.13	93.69	3.206
12,300.00	5,705.66	6,455.04	-534.24	49.12	12,312.13	5,729.06	6,462.00	-199.67	57.32	335.46	228.64	94.00	3.140
12,400.00	5,705.59	6,555.04	-534.24	49.79	12,410.90	5,729.32	6,560.76	-201.32	58.22	333.81	225.44	94.08	3.080
12,500.00	5,705.51	6,655.04	-534.24	50.47	12,508.05	5,729.85	6,657.89	-202.93	59.10	332.21	222.30	94.20	3.023
12,600.00	5,705.44	6,755.04	-534.24	51.16	12,611.18	5,728.27	6,761.00	-203.60	60.03	331.48	219.92	93.95	2.971
12,700.00	5,705.36	6,855.04	-534.24	51.86	12,709.06	5,727.09	6,858.86	-205.40	60.92	329.59	216.42	93.78	2.912
12,800.00	5,705.29	6,955.04	-534.25	52.57	12,812.79	5,724.24	6,962.53	-206.70	61.87	328.18	213.31	93.31	2.857
12,900.00	5,705.21	7,055.04	-534.25	53.28	12,908.78	5,721.63	7,058.47	-208.29	62.75	326.39	209.89	92.88	2.802
12,999.57	5,705.14	7,154.61	-534.25	54.01	13,005.00	5,718.13	7,154.63	-209.30	63.62	325.21	207.07	92.29	2.753
13,000.00	5,705.13	7,155.04	-534.25	54.01	13,005.00	5,718.13	7,154.63	-209.30	63.62	325.21	207.06	92.29	2.753
13,100.00	5,705.06	7,255.04	-534.25	54.74	13,097.00	5,716.06	7,246.58	-207.92	64.42	326.63	206.92	91.93	2.729
13,179.06	5,705.00	7,334.10	-534.25	55.33	13,153.98	5,715.59	7,303.41	-204.04	64.90	331.80	211.02	91.83	2.747

**Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1**

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

Offset Design: Sec. 33-T10N-R58W (Razor #33N Pad) - Razor #33N-2808 - Plan D - Actual Field Surveys

Scan Range: 0.00 to 13,179.06 usft. Measured Depth.

Scan Radius is 9,999.98 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
140.00	140.00	0.06	-0.83	3.29	141.50	141.50	-18.27	87.39	3.29	90.12	82.57	-172.17	11.937
231.00	230.99	0.08	-1.69	3.31	232.81	232.79	-18.17	85.70	3.31	89.30	81.72	-166.68	11.785
323.00	322.99	0.31	-2.59	3.33	325.11	325.06	-17.74	83.71	3.34	88.19	80.56	169.25	11.561
365.07	365.05	0.35	-3.22	3.35	366.59	366.53	-17.56	82.89	3.35	87.97	80.31	-158.20	11.488
416.00	415.97	-0.06	-4.30	3.37	416.81	416.75	-17.58	82.24	3.37	88.29	80.60	-140.45	11.469
508.00	507.90	-1.97	-7.39	3.42	508.00	507.93	-18.56	81.52	3.41	90.44	82.66	-135.86	11.614
600.00	599.70	-5.52	-12.14	3.48	598.96	598.87	-20.51	81.46	3.47	94.80	86.90	-131.84	12.001
692.00	691.35	-10.46	-18.52	3.55	688.45	688.30	-23.55	82.78	3.53	102.18	94.15	-135.63	12.721
784.00	782.81	-16.17	-26.58	3.64	778.40	778.10	-28.05	85.51	3.61	112.82	104.63	-139.41	13.777
874.00	871.96	-23.21	-36.68	3.74	865.86	865.26	-34.11	89.09	3.69	126.41	118.06	-138.98	15.127
965.00	961.77	-31.86	-48.48	3.86	953.59	952.49	-42.41	93.60	3.79	142.77	134.21	-137.89	16.680
1,057.00	1,052.50	-40.89	-60.78	3.99	1,040.60	1,038.78	-51.84	99.40	3.89	161.14	152.36	-139.66	18.360
1,149.00	1,143.20	-49.95	-73.25	4.12	1,127.22	1,124.53	-61.56	106.90	4.01	181.48	172.47	-138.72	20.140
1,241.00	1,233.88	-59.28	-85.68	4.26	1,213.99	1,210.25	-71.67	115.77	4.13	203.21	193.95	-138.11	21.946
1,332.00	1,323.60	-68.54	-97.71	4.39	1,300.47	1,295.58	-81.76	125.58	4.26	225.43	215.92	-137.39	23.716
1,423.00	1,413.42	-77.25	-109.47	4.53	1,387.33	1,381.30	-91.00	136.05	4.40	247.99	238.24	-140.75	25.423
1,484.00	1,473.69	-82.79	-117.06	4.62	1,445.80	1,438.97	-97.35	143.32	4.50	263.10	253.16	-138.36	26.478
1,611.00	1,599.26	-94.33	-132.18	4.74	1,568.88	1,560.33	-110.88	158.81	4.65	294.05	284.17	-138.32	29.767
1,704.00	1,691.13	-102.26	-144.25	4.77	1,659.50	1,649.68	-120.85	170.14	4.70	317.65	307.72	-145.90	31.981
1,796.00	1,781.89	-110.16	-157.00	4.80	1,749.57	1,738.58	-130.21	181.14	4.73	341.49	331.51	-141.58	34.201
1,887.00	1,871.50	-120.44	-169.02	4.85	1,844.65	1,832.57	-139.58	192.06	4.77	363.67	353.61	-129.26	36.154
1,980.00	1,962.98	-132.49	-180.64	4.92	1,942.12	1,929.11	-149.83	200.68	4.83	383.21	373.06	-130.50	37.745
2,071.00	2,052.62	-143.69	-191.59	4.99	2,032.11	2,018.34	-158.85	208.06	4.89	401.40	391.14	-131.29	39.124
2,163.00	2,143.29	-153.97	-203.29	5.07	2,120.23	2,105.74	-167.43	215.32	4.95	420.51	410.14	-140.13	40.544
2,255.00	2,234.11	-162.55	-215.27	5.16	2,209.15	2,194.01	-174.63	223.24	5.02	440.51	429.99	-143.65	41.907
2,347.00	2,324.89	-171.79	-226.97	5.26	2,301.42	2,285.68	-181.41	231.22	5.10	459.96	449.29	-135.63	43.137
2,438.00	2,414.52	-182.40	-238.54	5.37	2,389.77	2,373.45	-188.50	238.46	5.18	478.80	467.98	-135.33	44.226
2,531.00	2,506.19	-193.15	-249.91	5.49	2,478.66	2,461.56	-197.28	246.25	5.28	498.17	487.16	-134.64	45.222
2,620.00	2,593.96	-202.67	-261.22	5.61	2,563.81	2,545.93	-205.96	253.78	5.37	517.24	506.05	-142.30	46.201
2,711.00	2,683.71	-211.68	-273.26	5.74	2,648.65	2,629.94	-214.47	261.98	5.48	537.94	526.54	-141.53	47.186
2,802.00	2,773.53	-220.73	-284.71	5.88	2,739.02	2,719.43	-223.41	270.87	5.60	558.21	546.59	-139.32	48.007
2,894.00	2,864.51	-229.40	-295.27	6.02	2,834.09	2,813.73	-231.83	279.57	5.73	577.08	565.20	-139.71	48.588
2,985.00	2,954.56	-236.72	-306.10	6.16	2,927.58	2,906.58	-239.38	287.39	5.86	595.42	583.32	-149.90	49.192
3,076.00	3,044.53	-244.10	-317.58	6.30	3,016.91	2,995.45	-245.25	294.34	5.99	613.89	601.54	-142.99	49.724
3,168.00	3,135.20	-253.15	-330.19	6.45	3,101.70	3,079.70	-251.46	301.48	6.11	634.11	621.55	-143.81	50.470
3,260.00	3,225.56	-263.07	-344.41	6.61	3,189.27	3,166.62	-258.85	309.28	6.23	656.35	643.54	-144.81	51.242
3,353.00	3,316.86	-273.74	-358.47	6.79	3,278.27	3,254.88	-266.95	317.32	6.37	678.67	665.58	-139.49	51.856
3,444.00	3,406.34	-284.23	-371.32	6.96	3,362.82	3,338.69	-274.68	325.36	6.50	700.03	686.66	-141.22	52.375
3,536.00	3,496.87	-294.48	-384.11	7.14	3,452.53	3,427.59	-282.98	334.07	6.65	721.61	707.96	-140.97	52.867
3,626.00	3,585.70	-303.31	-395.48	7.31	3,537.78	3,512.04	-291.01	342.50	6.79	741.76	727.81	-143.65	53.190
3,719.00	3,677.83	-310.96	-405.64	7.49	3,633.55	3,606.95	-299.83	351.79	6.96	760.82	746.56	-142.73	53.357
3,811.00	3,769.12	-318.34	-414.30	7.66	3,723.89	3,696.54	-307.71	360.34	7.12	778.11	763.53	-136.20	53.379
3,903.00	3,860.26	-326.39	-423.78	7.83	3,827.79	3,799.76	-315.78	369.02	7.31	795.18	780.30	-142.25	53.427
3,994.00	3,950.18	-334.98	-434.88	8.01	3,914.46	3,885.92	-322.24	375.85	7.46	813.38	798.19	-142.49	53.558
4,086.00	4,040.81	-344.27	-447.60	8.21	4,006.53	3,977.36	-330.10	383.12	7.62	833.25	817.77	-145.02	53.827
4,177.00	4,130.25	-353.99	-461.30	8.40	4,099.78	4,069.93	-338.87	390.08	7.80	853.65	837.82	-144.44	53.949
4,268.00	4,219.89	-363.34	-473.86	8.61	4,190.91	4,160.41	-347.73	396.46	7.97	872.49	856.31	-142.56	53.939
4,361.00	4,311.75	-372.15	-485.38	8.81	4,276.59	4,245.52	-355.40	402.73	8.14	890.73	874.21	-143.28	53.918
4,453.00	4,402.85	-379.93	-495.56	9.01	4,369.17	4,337.52	-363.16	409.50	8.31	907.57	890.70	-142.79	53.796
4,545.00	4,494.14	-387.18	-504.32	9.20	4,442.36	4,410.23	-368.93	415.55	8.45	923.87	906.68	-138.77	53.743
4,637.00	4,585.54	-394.54	-511.79	9.39	4,526.42	4,493.71	-374.47	423.65	8.61	940.15	922.63	-133.15	53.667
4,729.00	4,677.01	-402.16	-518.13	9.57	4,620.19	4,586.88	-379.77	432.84	8.79	955.50	937.63	-127.42	53.479

**Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1**

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

Offset Design: Sec. 33-T10N-R58W (Razor #33N Pad) - Razor #33N-2808 - Plan D - Actual Field Surveys

Scan Range: 0.00 to 13,179.06 usft. Measured Depth.

Scan Radius is 9,999.98 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
4,821.00	4,768.60	-408.63	-523.80	9.75	4,733.01	4,699.01	-387.76	442.45	9.01	968.98	950.73	-137.46	53.103
4,910.00	4,857.39	-412.15	-528.75	9.91	4,823.86	4,789.38	-394.25	449.00	9.19	980.28	961.70	-158.71	52.762
4,999.00	4,946.32	-413.18	-531.90	10.06	4,935.62	4,900.68	-401.96	455.60	9.41	988.62	969.67	-172.90	52.168
5,088.00	5,035.30	-413.28	-533.76	10.21	5,070.27	5,035.12	-408.16	459.20	9.66	992.97	973.62	178.12	51.304
5,175.00	5,122.03	-407.44	-535.38	10.34	5,162.16	5,127.00	-409.25	458.68	9.81	994.08	974.43	97.53	50.599
5,220.00	5,166.23	-399.21	-536.69	10.39	5,239.47	5,204.02	-404.20	457.20	9.92	994.63	974.82	100.42	50.207
5,265.00	5,209.52	-387.10	-538.39	10.44	5,305.42	5,268.57	-391.21	454.06	9.98	994.21	974.28	97.43	49.886
5,309.00	5,250.86	-372.07	-538.46	10.47	5,339.81	5,301.55	-381.64	452.27	10.01	992.07	972.06	87.20	49.600
5,354.00	5,292.06	-354.13	-536.26	10.49	5,374.88	5,334.32	-369.26	450.90	10.04	988.18	968.13	83.73	49.290
5,399.00	5,332.09	-333.71	-534.10	10.50	5,412.43	5,368.30	-353.32	449.84	10.07	984.80	964.70	88.94	49.002
5,444.00	5,370.53	-310.36	-533.55	10.52	5,444.00	5,396.08	-338.35	449.18	10.08	983.46	963.33	92.67	48.861
5,449.69	5,375.27	-307.19	-533.59	10.52	5,454.39	5,405.07	-333.15	449.02	10.09	983.40	963.27	92.87	48.842
5,489.00	5,406.91	-283.89	-534.15	10.54	5,488.00	5,433.64	-315.45	448.89	10.11	983.91	963.75	93.92	48.805
5,533.00	5,440.00	-254.93	-535.06	10.56	5,519.01	5,459.16	-297.85	449.13	10.12	985.31	965.13	93.79	48.813
5,578.00	5,470.89	-222.24	-535.45	10.57	5,584.41	5,509.57	-256.26	449.44	10.15	986.24	966.01	92.84	48.750
5,623.00	5,498.80	-186.96	-534.68	10.57	5,646.84	5,552.85	-211.31	448.69	10.17	985.16	964.88	92.08	48.578
5,668.00	5,524.32	-149.92	-533.66	10.57	5,699.20	5,586.07	-170.86	447.63	10.18	983.45	963.12	93.15	48.377
5,708.88	5,545.70	-115.09	-533.57	10.57	5,737.02	5,608.29	-140.26	446.90	10.19	982.78	962.40	94.23	48.215
5,713.00	5,547.77	-111.52	-533.61	10.57	5,740.56	5,610.27	-137.34	446.85	10.19	982.79	962.40	94.32	48.202
5,757.00	5,568.73	-72.84	-534.14	10.59	5,779.73	5,630.97	-104.09	446.51	10.21	983.12	962.65	94.39	48.028
5,802.00	5,587.48	-31.96	-534.72	10.61	5,825.03	5,651.91	-63.93	446.51	10.23	983.85	963.28	94.52	47.815
5,847.00	5,603.19	10.20	-535.38	10.64	5,878.08	5,672.49	-15.06	446.56	10.26	984.71	963.99	94.59	47.529
5,891.00	5,616.19	52.23	-535.84	10.69	5,916.89	5,685.29	21.58	446.62	10.31	985.36	964.50	94.45	47.236
5,936.00	5,627.10	95.88	-536.14	10.75	5,952.92	5,695.62	56.09	447.15	10.37	986.48	965.46	94.49	46.923
5,979.00	5,634.47	138.23	-536.11	10.83	5,991.65	5,704.63	93.73	448.17	10.46	987.78	966.58	94.31	46.583
6,032.00	5,640.41	190.88	-535.23	10.95	6,045.75	5,713.56	147.05	449.87	10.61	988.79	967.32	94.34	46.047
6,105.00	5,644.89	263.70	-533.18	14.39	6,147.87	5,720.71	248.72	453.06	14.10	989.26	967.42	94.37	45.286
6,195.00	5,646.20	353.67	-531.47	14.45	6,278.64	5,716.65	379.41	452.61	14.19	986.93	964.77	94.09	44.532
6,276.06	5,646.55	434.73	-531.65	14.52	6,343.08	5,715.65	443.84	451.51	14.23	985.63	963.15	94.02	43.856
6,284.00	5,646.62	442.67	-531.73	14.52	6,349.34	5,715.60	450.10	451.46	14.24	985.64	963.14	94.01	43.797
6,374.00	5,646.99	532.65	-533.44	14.60	6,442.70	5,715.90	543.45	450.88	14.30	986.78	963.77	94.00	42.879
6,463.00	5,646.43	621.57	-537.17	14.68	6,503.32	5,716.71	604.06	450.73	14.35	990.55	966.99	94.03	42.047
6,553.00	5,645.97	711.45	-541.76	14.78	6,570.24	5,717.11	670.94	453.19	14.40	998.32	974.20	94.11	41.389
6,642.00	5,644.43	800.41	-543.13	14.89	6,690.72	5,720.60	791.34	455.34	14.50	1,001.41	976.49	94.37	40.183
6,732.00	5,640.60	890.32	-542.27	15.00	6,795.28	5,723.37	895.85	455.43	14.60	1,001.14	975.31	94.77	38.759
6,788.09	5,638.27	946.36	-542.07	15.08	6,846.84	5,724.16	947.40	455.06	14.66	1,000.82	974.45	94.93	37.951
6,819.00	5,637.37	977.26	-542.05	15.13	6,871.58	5,724.34	972.15	455.09	14.69	1,000.94	974.28	94.98	37.550
6,909.00	5,636.25	1,067.25	-541.81	15.29	6,949.05	5,724.34	1,049.61	456.09	14.79	1,001.93	974.41	95.04	36.399
6,998.00	5,635.81	1,156.24	-540.77	15.48	7,042.64	5,725.18	1,143.18	457.76	14.96	1,002.60	974.07	95.12	35.133
7,088.00	5,635.10	1,246.23	-540.55	15.73	7,172.61	5,725.64	1,273.14	457.15	15.36	1,002.16	972.26	95.19	33.521
7,110.26	5,634.98	1,268.48	-540.99	15.80	7,194.38	5,725.63	1,294.90	456.57	15.45	1,002.01	971.82	95.19	33.193
7,177.00	5,634.71	1,335.15	-544.01	16.05	7,259.20	5,725.53	1,359.70	454.92	15.74	1,003.36	972.30	95.19	32.306
7,267.00	5,634.10	1,425.02	-548.94	16.46	7,317.03	5,725.40	1,417.52	454.38	16.04	1,007.50	975.49	95.18	31.476
7,357.00	5,633.69	1,514.91	-553.27	16.92	7,384.00	5,725.08	1,484.47	455.97	16.43	1,013.83	980.78	95.19	30.678
7,446.00	5,633.63	1,603.88	-555.08	17.43	7,502.84	5,722.64	1,603.24	459.04	17.18	1,018.01	983.57	95.02	29.558
7,536.00	5,633.80	1,693.86	-553.26	17.97	7,628.75	5,721.30	1,729.10	456.41	18.06	1,014.07	978.11	94.94	28.203
7,625.00	5,633.77	1,782.78	-549.52	18.53	7,711.00	5,720.47	1,811.31	454.14	18.64	1,007.80	970.64	94.98	27.123
7,715.00	5,633.15	1,872.64	-544.66	19.13	7,775.89	5,721.02	1,876.20	453.26	19.10	1,001.79	963.50	95.06	26.168
7,804.00	5,632.58	1,961.42	-538.43	19.74	7,840.30	5,722.20	1,940.59	453.64	19.57	996.33	956.97	95.19	25.319
7,869.03	5,632.36	2,026.31	-534.43	20.20	7,890.00	5,723.41	1,990.25	455.11	19.93	994.38	954.09	95.25	24.684
7,894.00	5,632.36	2,051.28	-533.76	20.38	7,911.45	5,723.95	2,011.68	455.95	20.09	994.73	954.07	95.29	24.468
7,983.00	5,632.33	2,140.25	-531.42	21.03	8,006.73	5,725.33	2,106.90	459.12	20.82	995.45	953.41	95.36	23.677

**Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1**

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

Offset Design: Sec. 33-T10N-R58W (Razor #33N Pad) - Razor #33N-2808 - Plan D - Actual Field Surveys

Scan Range: 0.00 to 13,179.06 usft. Measured Depth.

Scan Radius is 9,999.98 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
7,986.47	5,632.33	2,143.71	-531.30	21.06	8,009.91	5,725.33	2,110.08	459.23	20.84	995.45	953.35	95.36	23.647
8,073.00	5,631.53	2,230.22	-529.75	21.71	8,112.34	5,723.62	2,212.42	462.79	21.64	996.96	953.37	95.28	22.868
8,160.00	5,630.39	2,317.21	-530.39	22.39	8,240.69	5,723.09	2,340.74	462.00	22.64	996.98	951.69	95.34	22.010
8,207.85	5,629.96	2,365.05	-531.20	22.76	8,283.35	5,724.08	2,383.38	460.96	22.98	996.79	950.77	95.42	21.663
8,250.00	5,629.66	2,407.19	-531.98	23.10	8,319.31	5,724.51	2,419.34	460.37	23.26	996.94	950.31	95.46	21.378
8,339.00	5,631.29	2,496.12	-534.84	23.81	8,410.03	5,724.07	2,510.04	459.36	23.99	998.61	950.53	95.40	20.767
8,427.00	5,634.25	2,584.03	-537.46	24.52	8,511.00	5,722.82	2,610.96	456.58	24.81	998.34	948.69	95.07	20.107
8,519.00	5,634.54	2,676.01	-536.48	25.26	8,586.72	5,722.34	2,686.65	454.45	25.43	994.87	943.91	95.12	19.521
8,611.00	5,632.12	2,767.93	-533.73	26.00	8,673.89	5,721.75	2,773.82	454.09	26.13	991.90	939.47	95.24	18.919
8,703.00	5,629.56	2,859.87	-531.44	26.74	8,755.13	5,721.56	2,855.05	453.91	26.80	989.65	935.82	95.36	18.383
8,739.58	5,628.98	2,896.44	-530.81	27.05	8,788.00	5,721.18	2,887.92	454.21	27.07	989.36	934.94	95.35	18.178
8,795.00	5,628.84	2,951.85	-530.93	27.50	8,859.66	5,719.64	2,959.56	454.48	27.67	989.62	934.12	95.27	17.831
8,887.00	5,629.56	3,043.83	-533.07	28.29	8,969.42	5,716.87	3,069.26	452.77	28.59	990.03	932.81	95.06	17.304
8,980.00	5,630.16	3,136.77	-536.18	29.08	9,059.74	5,715.66	3,159.55	450.65	29.34	990.79	932.03	94.95	16.862
9,071.00	5,630.87	3,227.71	-539.44	29.85	9,137.91	5,715.32	3,237.72	449.36	29.98	992.45	932.27	94.90	16.492
9,163.00	5,633.00	3,319.66	-541.53	30.61	9,235.46	5,716.30	3,335.25	448.22	30.80	993.38	931.60	94.79	16.080
9,253.00	5,635.48	3,409.62	-541.25	31.36	9,321.58	5,717.24	3,421.35	446.87	31.54	991.57	928.33	94.70	15.680
9,345.00	5,636.36	3,501.59	-539.43	32.13	9,406.44	5,716.96	3,506.21	446.18	32.26	988.91	924.19	94.68	15.280
9,418.01	5,636.07	3,574.59	-538.12	32.75	9,464.36	5,716.55	3,564.13	446.27	32.75	987.73	921.87	94.67	14.998
9,436.00	5,635.97	3,592.58	-537.95	32.90	9,477.40	5,716.41	3,577.17	446.45	32.86	987.80	921.68	94.67	14.939
9,528.00	5,636.55	3,684.58	-537.56	33.69	9,563.81	5,715.07	3,663.53	448.76	33.59	989.67	922.01	94.57	14.627
9,620.00	5,638.86	3,776.54	-537.06	34.47	9,659.38	5,712.73	3,759.06	450.28	34.40	990.26	921.00	94.29	14.298
9,711.00	5,640.63	3,867.50	-535.13	35.24	9,743.01	5,711.95	3,842.66	452.34	35.11	990.35	919.64	94.13	14.007
9,803.00	5,640.74	3,959.44	-531.68	36.02	9,842.36	5,712.46	3,941.98	454.52	35.96	988.96	916.65	94.17	13.677
9,894.00	5,641.49	4,050.39	-528.95	36.81	9,952.34	5,712.33	4,051.95	455.57	36.90	987.06	912.95	94.09	13.320
9,985.00	5,643.18	4,141.36	-527.59	37.60	10,057.28	5,713.93	4,156.88	454.42	37.81	984.68	908.88	94.10	12.990
10,000.00	5,643.51	4,156.35	-527.34	37.68	10,073.64	5,714.04	4,173.23	454.14	37.95	984.16	908.14	94.05	12.946
10,029.66	5,644.79	4,185.97	-526.53	37.77	10,103.43	5,714.10	4,203.02	453.62	38.21	982.75	906.41	93.87	12.874
10,100.00	5,648.67	4,256.19	-525.37	37.98	10,172.76	5,713.40	4,272.34	452.46	38.82	980.10	902.87	93.74	12.691
10,128.60	5,650.19	4,284.75	-525.63	38.07	10,198.30	5,713.15	4,297.87	452.09	39.04	979.84	902.29	93.69	12.636
10,129.86	5,650.25	4,286.01	-525.65	38.07	10,199.43	5,713.14	4,299.00	452.08	39.05	979.84	902.28	93.69	12.634
10,160.81	5,651.74	4,316.92	-526.09	38.17	10,227.10	5,713.08	4,326.67	451.76	39.29	979.82	901.92	93.59	12.578
10,178.80	5,652.53	4,334.89	-526.28	38.22	10,243.20	5,713.15	4,342.76	451.61	39.42	979.81	901.70	93.55	12.545
10,200.00	5,653.46	4,356.07	-526.51	38.29	10,264.16	5,713.34	4,363.72	451.45	39.61	979.82	901.47	93.51	12.505
10,300.00	5,657.85	4,455.97	-527.59	38.63	10,369.40	5,713.14	4,468.95	449.88	40.52	979.12	899.50	93.23	12.298
10,319.44	5,658.70	4,475.39	-527.80	38.70	10,383.95	5,713.06	4,483.50	449.73	40.65	979.07	899.26	93.19	12.266
10,400.00	5,662.23	4,555.87	-528.66	38.99	10,439.00	5,712.95	4,538.55	449.80	41.12	979.93	899.34	93.04	12.159
10,500.00	5,666.62	4,655.77	-529.74	39.37	10,531.00	5,714.80	4,630.51	451.47	41.92	982.72	900.94	92.90	12.018
10,600.00	5,671.00	4,755.66	-530.82	39.77	10,642.59	5,718.56	4,742.01	453.55	42.89	985.61	902.46	92.83	11.854
10,700.00	5,675.39	4,855.56	-531.89	40.19	10,756.18	5,719.70	4,855.59	454.47	43.89	987.36	902.78	92.60	11.674
10,800.00	5,679.77	4,955.46	-532.97	40.63	10,864.80	5,717.20	4,964.18	453.76	44.85	987.47	901.47	92.18	11.482
10,900.00	5,684.16	5,055.36	-534.04	41.08	10,957.28	5,713.79	5,056.59	453.33	45.66	987.81	900.52	91.74	11.316
10,919.26	5,685.00	5,074.60	-534.25	41.17	10,974.62	5,713.33	5,073.92	453.33	45.81	987.99	900.46	91.67	11.287
10,975.26	5,687.01	5,130.56	-534.54	41.44	11,037.47	5,712.37	5,136.76	453.29	46.36	988.18	899.83	91.46	11.185
11,000.00	5,687.70	5,155.29	-534.53	41.56	11,067.66	5,712.38	5,166.96	453.02	46.62	987.92	899.19	91.41	11.134
11,071.67	5,689.69	5,226.94	-534.50	41.91	11,126.56	5,712.85	5,225.85	452.55	47.13	987.31	897.72	91.34	11.019
11,100.00	5,690.48	5,255.25	-534.48	42.05	11,147.98	5,712.97	5,247.27	452.64	47.32	987.41	897.49	91.32	10.981
11,200.00	5,693.27	5,355.21	-534.44	42.56	11,250.92	5,712.33	5,350.19	453.73	48.22	988.37	897.02	91.11	10.820
11,300.00	5,696.05	5,455.17	-534.39	43.09	11,349.63	5,710.41	5,448.88	454.26	49.09	988.77	896.03	90.84	10.661
11,400.00	5,698.83	5,555.14	-534.35	43.63	11,444.00	5,710.20	5,543.25	454.60	49.91	989.08	894.97	90.68	10.509
11,500.00	5,701.62	5,655.10	-534.30	44.18	11,536.00	5,710.53	5,635.24	455.94	50.71	990.49	895.01	90.55	10.374
11,600.00	5,704.40	5,755.06	-534.26	44.76	11,653.66	5,710.37	5,752.89	457.09	51.74	991.37	894.28	90.35	10.212

**Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1**

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

Offset Design: Sec. 33-T10N-R58W (Razor #33N Pad) - Razor #33N-2808 - Plan D - Actual Field Surveys

Scan Range: 0.00 to 13,179.06 usft. Measured Depth.

Scan Radius is 9,999.98 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
11,621.40	5,705.00	5,776.45	-534.25	44.88	11,671.31	5,710.30	5,770.54	457.16	51.90	991.44	894.08	90.31	10.183
11,703.35	5,706.11	5,858.39	-534.23	45.36	11,750.77	5,709.86	5,849.99	458.09	52.60	992.36	893.82	90.22	10.070
11,800.00	5,706.04	5,955.04	-534.23	45.94	11,869.18	5,711.08	5,968.39	457.52	53.64	991.86	891.69	90.29	9.902
11,900.00	5,705.96	6,055.04	-534.23	46.55	11,964.34	5,711.86	6,063.54	456.21	54.49	990.50	888.87	90.34	9.747
12,000.00	5,705.89	6,155.04	-534.24	47.18	12,070.95	5,710.90	6,170.14	455.28	55.43	989.64	886.45	90.29	9.590
12,100.00	5,705.81	6,255.04	-534.24	47.81	12,178.00	5,708.12	6,277.12	453.00	56.38	987.48	882.70	90.14	9.424
12,190.25	5,705.74	6,345.29	-534.24	48.40	12,246.20	5,707.55	6,345.31	452.07	56.98	986.31	880.34	90.10	9.307
12,200.00	5,705.74	6,355.04	-534.24	48.46	12,253.20	5,707.56	6,352.31	452.08	57.04	986.33	880.23	90.11	9.296
12,300.00	5,705.66	6,455.04	-534.24	49.12	12,328.43	5,708.29	6,427.52	453.27	57.70	987.90	880.48	90.15	9.197
12,400.00	5,705.59	6,555.04	-534.24	49.79	12,424.97	5,709.82	6,523.99	456.58	58.55	991.31	882.38	90.24	9.100
12,500.00	5,705.51	6,655.04	-534.24	50.47	12,529.74	5,710.44	6,628.72	459.50	59.48	994.10	883.56	90.28	8.993
12,600.00	5,705.44	6,755.04	-534.24	51.16	12,648.46	5,711.14	6,747.42	461.56	60.53	995.85	883.56	90.33	8.869
12,700.00	5,705.36	6,855.04	-534.24	51.86	12,755.40	5,711.89	6,854.35	462.17	61.48	996.43	882.50	90.38	8.746
12,796.29	5,705.29	6,951.33	-534.25	52.54	12,852.42	5,713.37	6,951.35	461.65	62.34	995.93	880.46	90.46	8.625
12,800.00	5,705.29	6,955.04	-534.25	52.57	12,855.20	5,713.40	6,954.13	461.65	62.36	995.93	880.41	90.47	8.621
12,900.00	5,705.21	7,055.04	-534.25	53.28	12,951.86	5,713.40	7,050.79	462.72	63.22	997.01	879.91	90.47	8.514
13,000.00	5,705.13	7,155.04	-534.25	54.01	13,100.57	5,714.79	7,199.44	459.43	64.55	994.71	875.56	90.56	8.348
13,100.00	5,705.06	7,255.04	-534.25	54.74	13,209.64	5,713.66	7,308.36	453.94	65.42	989.67	868.91	90.50	8.195
13,170.64	5,705.01	7,325.67	-534.25	55.27	13,227.00	5,713.36	7,325.69	453.01	65.51	987.29	865.93	90.48	8.135
13,179.06	5,705.00	7,334.10	-534.25	55.33	13,227.00	5,713.36	7,325.69	453.01	65.51	987.33	865.90	90.48	8.131

**Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1**

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

Offset Design: Sec. 21-T10N-R58W - Razor #21C-2806B - Existing Well - Customer Supplied

Scan Range: 0.00 to 13,179.06 usft. Measured Depth.

Scan Radius is 9,999.98 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
140.00	140.00	0.06	-0.83	3.29	12,740.00	5,842.55	7,566.46	-204.55	128.38	9,404.38	9,386.26	85.05	518.974
231.00	230.99	0.08	-1.69	3.31	12,740.00	5,842.55	7,566.46	-204.55	128.38	9,350.63	9,332.38	90.28	512.324
323.00	322.99	0.31	-2.59	3.33	12,740.00	5,842.55	7,566.46	-204.55	128.38	9,296.71	9,278.57	66.41	512.733
416.00	415.97	-0.06	-4.30	3.37	12,740.00	5,842.55	7,566.46	-204.55	128.38	9,243.30	9,225.24	117.58	512.087
508.00	507.90	-1.97	-7.39	3.42	12,740.00	5,842.55	7,566.46	-204.55	128.38	9,192.34	9,174.28	123.69	508.921
600.00	599.70	-5.52	-12.14	3.48	12,740.00	5,842.55	7,566.46	-204.55	128.38	9,143.43	9,125.08	129.73	498.491
692.00	691.35	-10.46	-18.52	3.55	12,740.00	5,842.55	7,566.46	-204.55	128.38	9,096.39	9,077.74	128.14	487.630
784.00	782.81	-16.17	-26.58	3.64	12,740.00	5,842.55	7,566.46	-204.55	128.38	9,050.76	9,031.69	126.17	474.569
874.00	871.96	-23.21	-36.68	3.74	12,740.00	5,842.55	7,566.46	-204.55	128.38	9,008.16	8,988.13	128.31	449.712
965.00	961.77	-31.86	-48.48	3.86	12,740.00	5,842.55	7,566.46	-204.55	128.38	8,967.25	8,946.89	130.07	440.395
1,057.00	1,052.50	-40.89	-60.78	3.99	12,740.00	5,842.55	7,566.46	-204.55	128.38	8,926.91	8,906.42	128.64	435.585
1,149.00	1,143.20	-49.95	-73.25	4.12	12,740.00	5,842.55	7,566.46	-204.55	128.38	8,887.39	8,866.70	129.65	429.587
1,241.00	1,233.88	-59.28	-85.68	4.26	12,740.00	5,842.55	7,566.46	-204.55	128.38	8,848.87	8,828.07	130.28	425.386
1,332.00	1,323.60	-68.54	-97.71	4.39	12,740.00	5,842.55	7,566.46	-204.55	128.38	8,811.59	8,790.74	130.97	422.774
1,423.00	1,413.42	-77.25	-109.47	4.53	12,740.00	5,842.55	7,566.46	-204.55	128.38	8,774.56	8,753.76	127.92	421.895
1,484.00	1,473.69	-82.79	-117.06	4.62	12,740.00	5,842.55	7,566.46	-204.55	128.38	8,749.89	8,729.12	130.07	421.317
1,611.00	1,599.26	-94.33	-132.18	4.74	12,740.00	5,842.55	7,566.46	-204.55	128.38	8,699.64	8,679.04	130.01	422.206
1,704.00	1,691.13	-102.26	-144.25	4.77	12,740.00	5,842.55	7,566.46	-204.55	128.38	8,663.42	8,642.44	123.02	412.964
1,796.00	1,781.89	-110.16	-157.00	4.80	12,740.00	5,842.55	7,566.46	-204.55	128.38	8,628.52	8,607.54	127.04	411.271
1,887.00	1,871.50	-120.44	-169.02	4.85	12,740.00	5,842.55	7,566.46	-204.55	128.38	8,597.11	8,575.54	139.08	398.670
1,980.00	1,962.98	-132.49	-180.64	4.92	12,740.00	5,842.55	7,566.46	-204.55	128.38	8,567.33	8,545.99	138.42	401.580
2,071.00	2,052.62	-143.69	-191.59	4.99	12,740.00	5,842.55	7,566.46	-204.55	128.38	8,538.47	8,517.14	138.10	400.185
2,163.00	2,143.29	-153.97	-203.29	5.07	12,740.00	5,842.55	7,566.46	-204.55	128.38	8,509.23	8,487.93	130.10	399.557
2,255.00	2,234.11	-162.55	-215.27	5.16	12,740.00	5,842.55	7,566.46	-204.55	128.38	8,479.27	8,458.23	126.90	403.010
2,347.00	2,324.89	-171.79	-226.97	5.26	12,740.00	5,842.55	7,566.46	-204.55	128.38	8,450.83	8,429.24	134.97	391.479
2,438.00	2,414.52	-182.40	-238.54	5.37	12,740.00	5,842.55	7,566.46	-204.55	128.38	8,425.00	8,403.34	135.69	389.016
2,531.00	2,506.19	-193.15	-249.91	5.49	12,740.00	5,842.55	7,566.46	-204.55	128.38	8,399.42	8,377.78	136.53	388.147
2,620.00	2,593.96	-202.67	-261.22	5.61	12,740.00	5,842.55	7,566.46	-204.55	128.38	8,375.12	8,353.39	129.42	385.494
2,711.00	2,683.71	-211.68	-273.26	5.74	12,740.00	5,842.55	7,566.46	-204.55	128.38	8,350.50	8,328.75	130.14	383.944
2,802.00	2,773.53	-220.73	-284.71	5.88	12,740.00	5,842.55	7,566.46	-204.55	128.38	8,326.82	8,304.99	132.25	381.540
2,894.00	2,864.51	-229.40	-295.27	6.02	12,740.00	5,842.55	7,566.46	-204.55	128.38	8,303.29	8,281.67	131.89	384.001
2,985.00	2,954.56	-236.72	-306.10	6.16	12,740.00	5,842.55	7,566.46	-204.55	128.38	8,279.77	8,257.93	122.26	379.066
3,076.00	3,044.53	-244.10	-317.58	6.30	12,740.00	5,842.55	7,566.46	-204.55	128.38	8,257.27	8,235.22	129.00	374.461
3,168.00	3,135.20	-253.15	-330.19	6.45	12,740.00	5,842.55	7,566.46	-204.55	128.38	8,237.10	8,214.37	128.52	362.411
3,260.00	3,225.56	-263.07	-344.41	6.61	12,740.00	5,842.55	7,566.46	-204.55	128.38	8,218.86	8,195.94	127.78	358.611
3,353.00	3,316.86	-273.74	-358.47	6.79	12,740.00	5,842.55	7,566.46	-204.55	128.38	8,202.05	8,178.87	132.97	353.876
3,444.00	3,406.34	-284.23	-371.32	6.96	12,740.00	5,842.55	7,566.46	-204.55	128.38	8,186.58	8,163.50	131.53	354.745
3,536.00	3,496.87	-294.48	-384.11	7.14	12,740.00	5,842.55	7,566.46	-204.55	128.38	8,171.57	8,148.23	131.88	350.103
3,626.00	3,585.70	-303.31	-395.48	7.31	12,740.00	5,842.55	7,566.46	-204.55	128.38	8,156.62	8,133.76	129.36	356.833
3,719.00	3,677.83	-310.96	-405.64	7.49	12,740.00	5,842.55	7,566.46	-204.55	128.38	8,140.63	8,117.65	130.16	354.252
3,811.00	3,769.12	-318.34	-414.30	7.66	12,740.00	5,842.55	7,566.46	-204.55	128.38	8,125.58	8,102.65	136.43	354.363
3,903.00	3,860.26	-326.39	-423.78	7.83	12,740.00	5,842.55	7,566.46	-204.55	128.38	8,112.25	8,088.66	130.61	343.944
3,994.00	3,950.18	-334.98	-434.88	8.01	12,740.00	5,842.55	7,566.46	-204.55	128.38	8,100.77	8,077.11	130.50	342.256
4,086.00	4,040.81	-344.27	-447.60	8.21	12,740.00	5,842.55	7,566.46	-204.55	128.38	8,090.90	8,066.63	128.06	333.380
4,177.00	4,130.25	-353.99	-461.30	8.40	12,740.00	5,842.55	7,566.46	-204.55	128.38	8,082.74	8,058.43	128.74	332.445
4,268.00	4,219.89	-363.34	-473.86	8.61	12,740.00	5,842.55	7,566.46	-204.55	128.38	8,075.17	8,050.75	130.61	330.700
4,361.00	4,311.75	-372.15	-485.38	8.81	12,740.00	5,842.55	7,566.46	-204.55	128.38	8,067.66	8,043.30	129.99	331.223
4,453.00	4,402.85	-379.93	-495.56	9.01	12,740.00	5,842.55	7,566.46	-204.55	128.38	8,060.28	8,035.86	130.50	330.080
4,545.00	4,494.14	-387.18	-504.32	9.20	12,740.00	5,842.55	7,566.46	-204.55	128.38	8,053.33	8,028.86	134.48	329.228
4,637.00	4,585.54	-394.54	-511.79	9.39	12,740.00	5,842.55	7,566.46	-204.55	128.38	8,047.47	8,022.76	140.05	325.626
4,729.00	4,677.01	-402.16	-518.13	9.57	12,740.00	5,842.55	7,566.46	-204.55	128.38	8,042.87	8,018.06	145.88	324.164
4,821.00	4,768.60	-408.63	-523.80	9.75	12,740.00	5,842.55	7,566.46	-204.55	128.38	8,038.14	8,013.44	136.03	325.435

**Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1**

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

Offset Design: Sec. 21-T10N-R58W - Razor #21C-2806B - Existing Well - Customer Supplied

Scan Range: 0.00 to 13,179.06 usft. Measured Depth.

Scan Radius is 9,999.98 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
4,910.00	4,857.39	-412.15	-528.75	9.91	12,740.00	5,842.55	7,566.46	-204.55	128.38	8,031.79	8,007.31	114.83	328.074
4,999.00	4,946.32	-413.18	-531.90	10.06	12,740.00	5,842.55	7,566.46	-204.55	128.38	8,023.86	7,999.41	100.21	328.223
5,088.00	5,035.30	-413.28	-533.76	10.21	12,740.00	5,842.55	7,566.46	-204.55	128.38	8,015.94	7,991.36	90.88	326.142
5,175.00	5,122.03	-407.44	-535.38	10.34	12,740.00	5,842.55	7,566.46	-204.55	128.38	8,003.23	7,977.77	10.03	314.343
5,220.00	5,166.23	-399.21	-536.69	10.39	12,740.00	5,842.55	7,566.46	-204.55	128.38	7,991.89	7,964.07	12.86	287.258
5,265.00	5,209.52	-387.10	-538.39	10.44	12,740.00	5,842.55	7,566.46	-204.55	128.38	7,977.00	7,947.05	9.53	266.368
5,309.00	5,250.86	-372.07	-538.46	10.47	12,740.00	5,842.55	7,566.46	-204.55	128.38	7,959.46	7,927.88	-2.61	252.014
5,354.00	5,292.06	-354.13	-536.26	10.49	12,740.00	5,842.55	7,566.46	-204.55	128.38	7,939.15	7,906.15	-7.42	240.618
5,399.00	5,332.09	-333.71	-534.10	10.50	12,740.00	5,842.55	7,566.46	-204.55	128.38	7,916.62	7,881.02	-1.34	222.399
5,444.00	5,370.53	-310.36	-533.55	10.52	12,740.00	5,842.55	7,566.46	-204.55	128.38	7,891.49	7,852.95	3.68	204.776
5,489.00	5,406.91	-283.89	-534.15	10.54	12,740.00	5,842.55	7,566.46	-204.55	128.38	7,863.56	7,821.68	5.74	187.775
5,533.00	5,440.00	-254.93	-535.06	10.56	12,740.00	5,842.55	7,566.46	-204.55	128.38	7,833.43	7,788.68	5.87	175.061
5,578.00	5,470.89	-222.24	-535.45	10.57	12,740.00	5,842.55	7,566.46	-204.55	128.38	7,799.75	7,752.61	3.52	165.480
5,623.00	5,498.80	-186.96	-534.68	10.57	12,740.00	5,842.55	7,566.46	-204.55	128.38	7,763.64	7,715.11	0.42	159.990
5,668.00	5,524.32	-149.92	-533.66	10.57	12,740.00	5,842.55	7,566.46	-204.55	128.38	7,725.91	7,675.59	2.78	153.543
5,713.00	5,547.77	-111.52	-533.61	10.57	12,740.00	5,842.55	7,566.46	-204.55	128.38	7,686.99	7,634.11	6.80	145.355
5,757.00	5,568.73	-72.84	-534.14	10.59	12,740.00	5,842.55	7,566.46	-204.55	128.38	7,647.94	7,593.63	7.32	140.841
5,802.00	5,587.48	-31.96	-534.72	10.61	12,740.00	5,842.55	7,566.46	-204.55	128.38	7,606.77	7,549.69	9.23	133.282
5,847.00	5,603.19	10.20	-535.38	10.64	12,740.00	5,842.55	7,566.46	-204.55	128.38	7,564.42	7,504.72	11.16	126.704
5,891.00	5,616.19	52.23	-535.84	10.69	12,740.00	5,842.55	7,566.46	-204.55	128.38	7,522.27	7,462.00	10.89	124.808
5,936.00	5,627.10	95.88	-536.14	10.75	12,740.00	5,842.55	7,566.46	-204.55	128.38	7,478.53	7,413.75	14.77	115.431
5,979.00	5,634.47	138.23	-536.11	10.83	12,740.00	5,842.55	7,566.46	-204.55	128.38	7,436.14	7,368.69	16.38	110.249
6,032.00	5,640.41	190.88	-535.23	10.95	12,740.00	5,842.55	7,566.46	-204.55	128.38	7,383.43	7,317.99	14.30	112.831
6,105.00	5,644.89	263.70	-533.18	14.39	12,740.00	5,842.55	7,566.46	-204.55	128.38	7,310.55	7,219.39	33.65	80.194
6,195.00	5,646.20	353.67	-531.47	14.45	12,740.00	5,842.55	7,566.46	-204.55	128.38	7,220.59	7,084.30	104.14	52.979
6,284.00	5,646.62	442.67	-531.73	14.52	12,740.00	5,842.55	7,566.46	-204.55	128.38	7,131.69	6,991.86	91.41	51.000
6,374.00	5,646.99	532.65	-533.44	14.60	12,740.00	5,842.55	7,566.46	-204.55	128.38	7,041.89	6,903.18	99.00	50.767
6,463.00	5,646.43	621.57	-537.17	14.68	12,740.00	5,842.55	7,566.46	-204.55	128.38	6,953.26	6,815.42	101.85	50.445
6,553.00	5,645.97	711.45	-541.76	14.78	12,740.00	5,842.55	7,566.46	-204.55	128.38	6,863.72	6,723.65	96.05	49.004
6,642.00	5,644.43	800.41	-543.13	14.89	12,740.00	5,842.55	7,566.46	-204.55	128.38	6,774.96	6,677.18	142.47	69.286
6,732.00	5,640.60	890.32	-542.27	15.00	12,740.00	5,842.55	7,566.46	-204.55	128.38	6,685.17	6,588.89	143.65	69.439
6,819.00	5,637.37	977.26	-542.05	15.13	12,740.00	5,842.55	7,566.46	-204.55	128.38	6,598.38	6,478.46	126.12	55.023
6,909.00	5,636.25	1,067.25	-541.81	15.29	12,740.00	5,842.55	7,566.46	-204.55	128.38	6,508.52	6,370.39	105.72	47.121
6,998.00	5,635.81	1,156.24	-540.77	15.48	12,740.00	5,842.55	7,566.46	-204.55	128.38	6,419.60	6,296.55	124.04	52.169
7,088.00	5,635.10	1,246.23	-540.55	15.73	12,740.00	5,842.55	7,566.46	-204.55	128.38	6,329.74	6,190.97	106.31	45.611
7,177.00	5,634.71	1,335.15	-544.01	16.05	12,740.00	5,842.55	7,566.46	-204.55	128.38	6,241.15	6,098.45	98.13	43.735
7,267.00	5,634.10	1,425.02	-548.94	16.46	12,740.00	5,842.55	7,566.46	-204.55	128.38	6,151.71	6,010.47	103.63	43.555
7,357.00	5,633.69	1,514.91	-553.27	16.92	12,740.00	5,842.55	7,566.46	-204.55	128.38	6,062.23	5,917.92	96.94	42.009
7,446.00	5,633.63	1,603.88	-555.08	17.43	12,740.00	5,842.55	7,566.46	-204.55	128.38	5,973.52	5,834.73	109.78	43.040
7,536.00	5,633.80	1,693.86	-553.26	17.97	12,740.00	5,842.55	7,566.46	-204.55	128.38	5,883.60	5,741.94	106.16	41.533
7,625.00	5,633.77	1,782.78	-549.52	18.53	12,740.00	5,842.55	7,566.46	-204.55	128.38	5,794.63	5,728.10	166.84	87.097
7,715.00	5,633.15	1,872.64	-544.66	19.13	12,740.00	5,842.55	7,566.46	-204.55	128.38	5,704.65	5,635.61	164.83	82.625
7,804.00	5,632.58	1,961.42	-538.43	19.74	12,740.00	5,842.55	7,566.46	-204.55	128.38	5,615.68	5,494.56	-128.75	46.365
7,894.00	5,632.36	2,051.28	-533.76	20.38	12,740.00	5,842.55	7,566.46	-204.55	128.38	5,525.72	5,383.73	109.56	38.917
7,983.00	5,632.33	2,140.25	-531.42	21.03	12,740.00	5,842.55	7,566.46	-204.55	128.38	5,436.78	5,310.44	125.94	43.033
8,073.00	5,631.53	2,230.22	-529.75	21.71	12,740.00	5,842.55	7,566.46	-204.55	128.38	5,346.90	5,212.06	119.10	39.655
8,160.00	5,630.39	2,317.21	-530.39	22.39	12,740.00	5,842.55	7,566.46	-204.55	128.38	5,260.14	5,115.98	109.30	36.488
8,250.00	5,629.66	2,407.19	-531.98	23.10	12,740.00	5,842.55	7,566.46	-204.55	128.38	5,170.46	5,023.42	106.02	35.164
8,339.00	5,631.29	2,496.12	-534.84	23.81	12,740.00	5,842.55	7,566.46	-204.55	128.38	5,081.89	4,932.43	77.40	34.002
8,427.00	5,634.25	2,584.03	-537.46	24.52	12,740.00	5,842.55	7,566.46	-204.55	128.38	4,994.30	4,841.39	84.97	32.661
8,519.00	5,634.54	2,676.01	-536.48	25.26	12,740.00	5,842.55	7,566.46	-204.55	128.38	4,902.48	4,789.54	137.92	43.410
8,611.00	5,632.12	2,767.93	-533.73	26.00	12,740.00	5,842.55	7,566.46	-204.55	128.38	4,810.64	4,700.87	140.31	43.824



**Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1**

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

Offset Design: Sec. 21-T10N-R58W - Razor #21C-2806B - Existing Well - Customer Supplied

Scan Range: 0.00 to 13,179.06 usft. Measured Depth.

Scan Radius is 9,999.98 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
8,703.00	5,629.56	2,859.87	-531.44	26.74	12,740.00	5,842.55	7,566.46	-204.55	128.38	4,718.83	4,596.68	132.52	38.633
8,795.00	5,628.84	2,951.85	-530.93	27.50	12,740.00	5,842.55	7,566.46	-204.55	128.38	4,627.06	4,472.54	99.80	29.945
8,887.00	5,629.56	3,043.83	-533.07	28.29	12,740.00	5,842.55	7,566.46	-204.55	128.38	4,535.48	4,378.90	95.44	28.966
8,980.00	5,630.16	3,136.77	-536.18	29.08	12,740.00	5,842.55	7,566.46	-204.55	128.38	4,443.02	4,286.82	99.32	28.444
9,071.00	5,630.87	3,227.71	-539.44	29.85	12,740.00	5,842.55	7,566.46	-204.55	128.38	4,352.60	4,194.20	93.99	27.479
9,163.00	5,633.00	3,319.66	-541.53	30.61	12,740.00	5,842.55	7,566.46	-204.55	128.38	4,261.07	4,102.86	81.88	26.933
9,253.00	5,635.48	3,409.62	-541.25	31.36	12,740.00	5,842.55	7,566.46	-204.55	128.38	4,171.34	4,011.09	88.95	26.029
9,345.00	5,636.36	3,501.59	-539.43	32.13	12,740.00	5,842.55	7,566.46	-204.55	128.38	4,079.52	3,928.52	112.21	27.016
9,436.00	5,635.97	3,592.58	-537.95	32.90	12,740.00	5,842.55	7,566.46	-204.55	128.38	3,988.76	3,834.92	109.77	25.929
9,528.00	5,636.55	3,684.58	-537.56	33.69	12,740.00	5,842.55	7,566.46	-204.55	128.38	3,897.07	3,734.52	92.23	23.975
9,620.00	5,638.86	3,776.54	-537.06	34.47	12,740.00	5,842.55	7,566.46	-204.55	128.38	3,805.37	3,643.09	82.60	23.449
9,711.00	5,640.63	3,867.50	-535.13	35.24	12,740.00	5,842.55	7,566.46	-204.55	128.38	3,714.58	3,554.80	104.34	23.248
9,803.00	5,640.74	3,959.44	-531.68	36.02	12,740.00	5,842.55	7,566.46	-204.55	128.38	3,622.73	3,476.00	119.72	24.691
9,894.00	5,641.49	4,050.39	-528.95	36.81	12,740.00	5,842.55	7,566.46	-204.55	128.38	3,531.91	3,366.18	90.90	21.311
9,985.00	5,643.18	4,141.36	-527.59	37.60	12,740.00	5,842.55	7,566.46	-204.55	128.38	3,441.19	3,275.20	95.07	20.731
10,000.00	5,643.51	4,156.35	-527.34	37.68	12,740.00	5,842.55	7,566.46	-204.55	128.38	3,426.23	3,260.16	84.91	20.631
10,029.66	5,644.79	4,185.97	-526.53	37.77	12,740.00	5,842.55	7,566.46	-204.55	128.38	3,396.65	3,248.01	60.39	22.852
10,100.00	5,648.67	4,256.19	-525.37	37.98	12,740.00	5,842.55	7,566.46	-204.55	128.38	3,326.57	3,166.34	72.18	20.761
10,129.86	5,650.25	4,286.01	-525.65	38.07	12,740.00	5,842.55	7,566.46	-204.55	128.38	3,296.90	3,134.59	75.13	20.313
10,160.81	5,651.74	4,316.92	-526.09	38.17	12,740.00	5,842.55	7,566.46	-204.55	128.38	3,266.15	3,101.86	78.45	19.881
10,200.00	5,653.46	4,356.07	-526.51	38.29	12,740.00	5,842.55	7,566.46	-204.55	128.38	3,227.21	3,062.80	78.45	19.629
10,300.00	5,657.85	4,455.97	-527.59	38.63	12,740.00	5,842.55	7,566.46	-204.55	128.38	3,127.87	2,963.13	78.45	18.987
10,400.00	5,662.23	4,555.87	-528.66	38.99	12,740.00	5,842.55	7,566.46	-204.55	128.38	3,028.57	2,863.48	78.45	18.345
10,500.00	5,666.62	4,655.77	-529.74	39.37	12,740.00	5,842.55	7,566.46	-204.55	128.38	2,929.32	2,763.86	78.45	17.704
10,600.00	5,671.00	4,755.66	-530.82	39.77	12,740.00	5,842.55	7,566.46	-204.55	128.38	2,830.12	2,664.27	78.45	17.065
10,700.00	5,675.39	4,855.56	-531.89	40.19	12,740.00	5,842.55	7,566.46	-204.55	128.38	2,730.98	2,564.72	78.45	16.426
10,800.00	5,679.77	4,955.46	-532.97	40.63	12,740.00	5,842.55	7,566.46	-204.55	128.38	2,631.90	2,465.22	78.45	15.789
10,900.00	5,684.16	5,055.36	-534.04	41.08	12,740.00	5,842.55	7,566.46	-204.55	128.38	2,532.90	2,365.76	78.45	15.155
10,919.26	5,685.00	5,074.60	-534.25	41.17	12,740.00	5,842.55	7,566.46	-204.55	128.38	2,513.84	2,346.62	78.45	15.033
10,975.26	5,687.01	5,130.56	-534.54	41.44	12,740.00	5,842.55	7,566.46	-204.55	128.38	2,458.39	2,288.72	84.17	14.489
11,000.00	5,687.70	5,155.29	-534.53	41.56	12,740.00	5,842.55	7,566.46	-204.55	128.38	2,433.88	2,264.09	84.17	14.335
11,100.00	5,690.48	5,255.25	-534.48	42.05	12,740.00	5,842.55	7,566.46	-204.55	128.38	2,334.85	2,164.57	84.17	13.712
11,200.00	5,693.27	5,355.21	-534.44	42.56	12,740.00	5,842.55	7,566.46	-204.55	128.38	2,235.90	2,065.11	84.17	13.092
11,300.00	5,696.05	5,455.17	-534.39	43.09	12,740.00	5,842.55	7,566.46	-204.55	128.38	2,137.05	1,965.74	84.17	12.475
11,400.00	5,698.83	5,555.14	-534.35	43.63	12,740.00	5,842.55	7,566.46	-204.55	128.38	2,038.31	1,866.46	84.17	11.861
11,500.00	5,701.62	5,655.10	-534.30	44.18	12,740.00	5,842.55	7,566.46	-204.55	128.38	1,939.70	1,767.30	84.17	11.251
11,600.00	5,704.40	5,755.06	-534.26	44.76	12,740.00	5,842.55	7,566.46	-204.55	128.38	1,841.25	1,668.27	84.17	10.645
11,621.40	5,705.00	5,776.45	-534.25	44.88	12,740.00	5,842.55	7,566.46	-204.55	128.38	1,820.20	1,647.10	84.17	10.515
11,703.35	5,706.11	5,858.39	-534.23	45.36	12,740.00	5,842.55	7,566.46	-204.55	128.38	1,739.67	1,565.52	92.85	9.989
11,800.00	5,706.04	5,955.04	-534.23	45.94	12,740.00	5,842.55	7,566.46	-204.55	128.38	1,644.87	1,470.14	92.85	9.414
11,900.00	5,705.96	6,055.04	-534.23	46.55	12,740.00	5,842.55	7,566.46	-204.55	128.38	1,547.04	1,371.70	92.85	8.823
12,000.00	5,705.89	6,155.04	-534.24	47.18	12,740.00	5,842.55	7,566.46	-204.55	128.38	1,449.50	1,273.53	92.85	8.237
12,100.00	5,705.81	6,255.04	-534.24	47.81	12,740.00	5,842.55	7,566.46	-204.55	128.38	1,352.32	1,175.72	92.85	7.657
12,200.00	5,705.74	6,355.04	-534.24	48.46	12,740.00	5,842.55	7,566.46	-204.55	128.38	1,255.58	1,078.33	92.85	7.084
12,300.00	5,705.66	6,455.04	-534.24	49.12	12,740.00	5,842.55	7,566.46	-204.55	128.38	1,159.40	981.49	92.85	6.517
12,400.00	5,705.59	6,555.04	-534.24	49.79	12,740.00	5,842.55	7,566.46	-204.55	128.38	1,063.92	885.34	92.85	5.958
12,500.00	5,705.51	6,655.04	-534.24	50.47	12,740.00	5,842.55	7,566.46	-204.55	128.38	969.35	790.09	92.85	5.408
12,600.00	5,705.44	6,755.04	-534.24	51.16	12,740.00	5,842.55	7,566.46	-204.55	128.38	875.99	696.04	92.85	4.868
12,700.00	5,705.36	6,855.04	-534.24	51.86	12,740.00	5,842.55	7,566.46	-204.55	128.38	784.27	603.62	92.85	4.341
12,800.00	5,705.29	6,955.04	-534.25	52.57	12,740.00	5,842.55	7,566.46	-204.55	128.38	694.83	513.48	92.85	3.831
12,900.00	5,705.21	7,055.04	-534.25	53.28	12,740.00	5,842.55	7,566.46	-204.55	128.38	608.70	426.62	92.85	3.343
13,000.00	5,705.13	7,155.04	-534.25	54.01	12,740.00	5,842.55	7,566.46	-204.55	128.38	527.47	344.68	92.85	2.886



Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)  
Offset Design: Sec. 21-T10N-R58W - Razor #21C-2806B - Existing Well - Customer Supplied  
Scan Range: 0.00 to 13,179.06 usft. Measured Depth.  
Scan Radius is 9,999.98 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
13,100.00	5,705.06	7,255.04	-534.25	54.74	12,740.00	5,842.55	7,566.46	-204.55	128.38	453.81	270.28	92.85	2.473
13,179.06	5,705.00	7,334.10	-534.25	55.33	12,740.00	5,842.55	7,566.46	-204.55	128.38	403.68	219.56	92.85	2.193

**Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1**

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

Offset Design: Sec. 21-T10N-R58W - Razor #21C-2808B - Existing Well - Customer Supplied Surveys

Scan Range: 0.00 to 13,179.06 usft. Measured Depth.

Scan Radius is 9,999.98 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
140.00	140.00	0.06	-0.83	3.29	12,826.00	5,850.83	7,565.46	471.78	129.46	9,418.15	9,391.81	90.17	357.690
231.00	230.99	0.08	-1.69	3.31	12,826.00	5,850.83	7,565.46	471.78	129.46	9,364.45	9,338.45	95.40	360.140
323.00	322.99	0.31	-2.59	3.33	12,826.00	5,850.83	7,565.46	471.78	129.46	9,310.59	9,284.19	71.54	352.616
416.00	415.97	-0.06	-4.30	3.37	12,826.00	5,850.83	7,565.46	471.78	129.46	9,257.30	9,230.05	122.65	339.721
508.00	507.90	-1.97	-7.39	3.42	12,826.00	5,850.83	7,565.46	471.78	129.46	9,206.57	9,178.12	128.70	323.581
600.00	599.70	-5.52	-12.14	3.48	12,826.00	5,850.83	7,565.46	471.78	129.46	9,158.00	9,128.43	134.67	309.779
692.00	691.35	-10.46	-18.52	3.55	12,826.00	5,850.83	7,565.46	471.78	129.46	9,111.43	9,080.75	133.04	297.046
784.00	782.81	-16.17	-26.58	3.64	12,826.00	5,850.83	7,565.46	471.78	129.46	9,066.39	9,034.59	131.04	285.073
874.00	871.96	-23.21	-36.68	3.74	12,826.00	5,850.83	7,565.46	471.78	129.46	9,024.54	8,991.20	133.08	270.724
965.00	961.77	-31.86	-48.48	3.86	12,826.00	5,850.83	7,565.46	471.78	129.46	8,984.51	8,950.91	134.82	267.383
1,057.00	1,052.50	-40.89	-60.78	3.99	12,826.00	5,850.83	7,565.46	471.78	129.46	8,945.09	8,911.20	133.39	263.928
1,149.00	1,143.20	-49.95	-73.25	4.12	12,826.00	5,850.83	7,565.46	471.78	129.46	8,906.51	8,872.50	134.39	261.872
1,241.00	1,233.88	-59.28	-85.68	4.26	12,826.00	5,850.83	7,565.46	471.78	129.46	8,868.94	8,834.89	135.02	260.470
1,332.00	1,323.60	-68.54	-97.71	4.39	12,826.00	5,850.83	7,565.46	471.78	129.46	8,832.57	8,798.59	135.72	259.933
1,423.00	1,413.42	-77.25	-109.47	4.53	12,826.00	5,850.83	7,565.46	471.78	129.46	8,796.46	8,762.30	132.69	257.533
1,484.00	1,473.69	-82.79	-117.06	4.62	12,826.00	5,850.83	7,565.46	471.78	129.46	8,772.38	8,738.52	134.85	259.072
1,611.00	1,599.26	-94.33	-132.18	4.74	12,826.00	5,850.83	7,565.46	471.78	129.46	8,723.31	8,689.65	134.80	259.125
1,704.00	1,691.13	-102.26	-144.25	4.77	12,826.00	5,850.83	7,565.46	471.78	129.46	8,688.04	8,653.21	127.80	249.461
1,796.00	1,781.89	-110.16	-157.00	4.80	12,826.00	5,850.83	7,565.46	471.78	129.46	8,654.15	8,619.68	131.81	251.117
1,887.00	1,871.50	-120.44	-169.02	4.85	12,826.00	5,850.83	7,565.46	471.78	129.46	8,623.68	8,589.76	143.77	254.211
1,980.00	1,962.98	-132.49	-180.64	4.92	12,826.00	5,850.83	7,565.46	471.78	129.46	8,594.82	8,561.06	143.14	254.604
2,071.00	2,052.62	-143.69	-191.59	4.99	12,826.00	5,850.83	7,565.46	471.78	129.46	8,566.83	8,533.05	142.82	253.547
2,163.00	2,143.29	-153.97	-203.29	5.07	12,826.00	5,850.83	7,565.46	471.78	129.46	8,538.52	8,504.04	134.84	247.580
2,255.00	2,234.11	-162.55	-215.27	5.16	12,826.00	5,850.83	7,565.46	471.78	129.46	8,509.53	8,475.12	131.67	247.339
2,347.00	2,324.89	-171.79	-226.97	5.26	12,826.00	5,850.83	7,565.46	471.78	129.46	8,482.03	8,447.69	139.69	246.987
2,438.00	2,414.52	-182.40	-238.54	5.37	12,826.00	5,850.83	7,565.46	471.78	129.46	8,457.14	8,422.79	140.42	246.236
2,531.00	2,506.19	-193.15	-249.91	5.49	12,826.00	5,850.83	7,565.46	471.78	129.46	8,432.48	8,398.22	141.27	246.146
2,620.00	2,593.96	-202.67	-261.22	5.61	12,826.00	5,850.83	7,565.46	471.78	129.46	8,409.09	8,374.17	134.16	240.785
2,711.00	2,683.71	-211.68	-273.26	5.74	12,826.00	5,850.83	7,565.46	471.78	129.46	8,385.46	8,350.58	134.89	240.411
2,802.00	2,773.53	-220.73	-284.71	5.88	12,826.00	5,850.83	7,565.46	471.78	129.46	8,362.71	8,327.91	137.00	240.372
2,894.00	2,864.51	-229.40	-295.27	6.02	12,826.00	5,850.83	7,565.46	471.78	129.46	8,340.05	8,305.46	136.67	241.109
2,985.00	2,954.56	-236.72	-306.10	6.16	12,826.00	5,850.83	7,565.46	471.78	129.46	8,317.42	8,281.97	127.03	234.613
3,076.00	3,044.53	-244.10	-317.58	6.30	12,826.00	5,850.83	7,565.46	471.78	129.46	8,295.87	8,260.64	133.76	235.483
3,168.00	3,135.20	-253.15	-330.19	6.45	12,826.00	5,850.83	7,565.46	471.78	129.46	8,276.73	8,240.84	133.24	230.595
3,260.00	3,225.56	-263.07	-344.41	6.61	12,826.00	5,850.83	7,565.46	471.78	129.46	8,259.65	8,223.52	132.50	228.641
3,353.00	3,316.86	-273.74	-358.47	6.79	12,826.00	5,850.83	7,565.46	471.78	129.46	8,243.98	8,208.00	137.69	229.107
3,444.00	3,406.34	-284.23	-371.32	6.96	12,826.00	5,850.83	7,565.46	471.78	129.46	8,229.56	8,193.49	136.26	228.164
3,536.00	3,496.87	-294.48	-384.11	7.14	12,826.00	5,850.83	7,565.46	471.78	129.46	8,215.59	8,179.32	136.61	226.531
3,626.00	3,585.70	-303.31	-395.48	7.31	12,826.00	5,850.83	7,565.46	471.78	129.46	8,201.57	8,165.46	134.13	227.155
3,719.00	3,677.83	-310.96	-405.64	7.49	12,826.00	5,850.83	7,565.46	471.78	129.46	8,186.41	8,150.21	134.94	226.178
3,811.00	3,769.12	-318.34	-414.30	7.66	12,826.00	5,850.83	7,565.46	471.78	129.46	8,172.06	8,136.12	141.22	227.373
3,903.00	3,860.26	-326.39	-423.78	7.83	12,826.00	5,850.83	7,565.46	471.78	129.46	8,159.50	8,122.85	135.37	222.601
3,994.00	3,950.18	-334.98	-434.88	8.01	12,826.00	5,850.83	7,565.46	471.78	129.46	8,148.92	8,112.15	135.26	221.567
4,086.00	4,040.81	-344.27	-447.60	8.21	12,826.00	5,850.83	7,565.46	471.78	129.46	8,140.07	8,102.86	132.79	218.742
4,177.00	4,130.25	-353.99	-461.30	8.40	12,826.00	5,850.83	7,565.46	471.78	129.46	8,133.01	8,095.68	133.48	217.848
4,268.00	4,219.89	-363.34	-473.86	8.61	12,826.00	5,850.83	7,565.46	471.78	129.46	8,126.44	8,089.00	135.35	217.072
4,361.00	4,311.75	-372.15	-485.38	8.81	12,826.00	5,850.83	7,565.46	471.78	129.46	8,119.84	8,082.27	134.75	216.139
4,453.00	4,402.85	-379.93	-495.56	9.01	12,826.00	5,850.83	7,565.46	471.78	129.46	8,113.26	8,075.56	135.27	215.241
4,545.00	4,494.14	-387.18	-504.32	9.20	12,826.00	5,850.83	7,565.46	471.78	129.46	8,106.99	8,069.25	139.26	214.802
4,637.00	4,585.54	-394.54	-511.79	9.39	12,826.00	5,850.83	7,565.46	471.78	129.46	8,101.71	8,063.85	144.83	213.999
4,729.00	4,677.01	-402.16	-518.13	9.57	12,826.00	5,850.83	7,565.46	471.78	129.46	8,097.57	8,059.62	150.67	213.402
4,821.00	4,768.60	-408.63	-523.80	9.75	12,826.00	5,850.83	7,565.46	471.78	129.46	8,093.25	8,055.14	140.82	212.390

**Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1**

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

Offset Design: Sec. 21-T10N-R58W - Razor #21C-2808B - Existing Well - Customer Supplied Surveys

Scan Range: 0.00 to 13,179.06 usft. Measured Depth.

Scan Radius is 9,999.98 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
4,910.00	4,857.39	-412.15	-528.75	9.91	12,826.00	5,850.83	7,565.46	471.78	129.46	8,087.27	8,049.06	119.64	211.650
4,999.00	4,946.32	-413.18	-531.90	10.06	12,826.00	5,850.83	7,565.46	471.78	129.46	8,079.56	8,041.43	105.03	211.871
5,088.00	5,035.30	-413.28	-533.76	10.21	12,826.00	5,850.83	7,565.46	471.78	129.46	8,071.76	8,033.49	95.70	210.902
5,175.00	5,122.03	-407.44	-535.38	10.34	12,826.00	5,850.83	7,565.46	471.78	129.46	8,059.19	8,020.07	14.94	206.006
5,220.00	5,166.23	-399.21	-536.69	10.39	12,826.00	5,850.83	7,565.46	471.78	129.46	8,047.99	8,006.68	17.89	194.823
5,265.00	5,209.52	-387.10	-538.39	10.44	12,826.00	5,850.83	7,565.46	471.78	129.46	8,033.30	7,990.47	14.69	187.569
5,309.00	5,250.86	-372.07	-538.46	10.47	12,826.00	5,850.83	7,565.46	471.78	129.46	8,015.86	7,973.88	2.75	190.952
5,354.00	5,292.06	-354.13	-536.26	10.49	12,826.00	5,850.83	7,565.46	471.78	129.46	7,995.46	7,953.91	-1.92	192.441
5,399.00	5,332.09	-333.71	-534.10	10.50	12,826.00	5,850.83	7,565.46	471.78	129.46	7,972.87	7,927.89	4.39	177.252
5,444.00	5,370.53	-310.36	-533.55	10.52	12,826.00	5,850.83	7,565.46	471.78	129.46	7,947.83	7,898.83	9.69	162.199
5,489.00	5,406.91	-283.89	-534.15	10.54	12,826.00	5,850.83	7,565.46	471.78	129.46	7,920.12	7,867.27	12.16	149.860
5,533.00	5,440.00	-254.93	-535.06	10.56	12,826.00	5,850.83	7,565.46	471.78	129.46	7,890.25	7,834.40	12.83	141.270
5,578.00	5,470.89	-222.24	-535.45	10.57	12,826.00	5,850.83	7,565.46	471.78	129.46	7,856.82	7,799.31	11.35	136.630
5,623.00	5,498.80	-186.96	-534.68	10.57	12,826.00	5,850.83	7,565.46	471.78	129.46	7,820.88	7,763.44	9.12	136.153
5,668.00	5,524.32	-149.92	-533.66	10.57	12,826.00	5,850.83	7,565.46	471.78	129.46	7,783.32	7,722.16	12.22	127.262
5,713.00	5,547.77	-111.52	-533.61	10.57	12,826.00	5,850.83	7,565.46	471.78	129.46	7,744.67	7,677.99	16.92	116.158
5,757.00	5,568.73	-72.84	-534.14	10.59	12,826.00	5,850.83	7,565.46	471.78	129.46	7,705.93	7,636.58	18.41	111.121
5,802.00	5,587.48	-31.96	-534.72	10.61	12,826.00	5,850.83	7,565.46	471.78	129.46	7,665.11	7,589.80	22.26	101.787
5,847.00	5,603.19	10.20	-535.38	10.64	12,826.00	5,850.83	7,565.46	471.78	129.46	7,623.14	7,541.63	26.33	93.524
5,891.00	5,616.19	52.23	-535.84	10.69	12,826.00	5,850.83	7,565.46	471.78	129.46	7,581.34	7,496.31	28.47	89.160
5,936.00	5,627.10	95.88	-536.14	10.75	12,826.00	5,850.83	7,565.46	471.78	129.46	7,537.97	7,442.28	35.84	78.777
5,979.00	5,634.47	138.23	-536.11	10.83	12,826.00	5,850.83	7,565.46	471.78	129.46	7,495.90	7,385.25	46.86	67.743
6,032.00	5,640.41	190.88	-535.23	10.95	12,826.00	5,850.83	7,565.46	471.78	129.46	7,443.54	7,324.40	54.04	62.477
6,105.00	5,644.89	263.70	-533.18	14.39	12,826.00	5,850.83	7,565.46	471.78	129.46	7,371.07	7,232.59	80.53	53.229
6,195.00	5,646.20	353.67	-531.47	14.45	12,826.00	5,850.83	7,565.46	471.78	129.46	7,281.71	7,141.64	94.79	51.988
6,284.00	5,646.62	442.67	-531.73	14.52	12,826.00	5,850.83	7,565.46	471.78	129.46	7,193.61	7,052.83	90.97	51.099
6,374.00	5,646.99	532.65	-533.44	14.60	12,826.00	5,850.83	7,565.46	471.78	129.46	7,104.76	6,963.93	94.31	50.448
6,463.00	5,646.43	621.57	-537.17	14.68	12,826.00	5,850.83	7,565.46	471.78	129.46	7,017.30	6,876.43	96.54	49.814
6,553.00	5,645.97	711.45	-541.76	14.78	12,826.00	5,850.83	7,565.46	471.78	129.46	6,929.05	6,787.32	93.32	48.890
6,642.00	5,644.43	800.41	-543.13	14.89	12,826.00	5,850.83	7,565.46	471.78	129.46	6,841.28	6,706.01	109.52	50.574
6,732.00	5,640.60	890.32	-542.27	15.00	12,826.00	5,850.83	7,565.46	471.78	129.46	6,752.31	6,619.21	113.21	50.731
6,819.00	5,637.37	977.26	-542.05	15.13	12,826.00	5,850.83	7,565.46	471.78	129.46	6,666.39	6,527.05	104.12	47.844
6,909.00	5,636.25	1,067.25	-541.81	15.29	12,826.00	5,850.83	7,565.46	471.78	129.46	6,577.44	6,434.74	95.45	46.091
6,998.00	5,635.81	1,156.24	-540.77	15.48	12,826.00	5,850.83	7,565.46	471.78	129.46	6,489.38	6,347.56	99.97	45.757
7,088.00	5,635.10	1,246.23	-540.55	15.73	12,826.00	5,850.83	7,565.46	471.78	129.46	6,400.49	6,256.88	96.81	44.567
7,177.00	5,634.71	1,335.15	-544.01	16.05	12,826.00	5,850.83	7,565.46	471.78	129.46	6,313.28	6,168.36	94.61	43.565
7,267.00	5,634.10	1,425.02	-548.94	16.46	12,826.00	5,850.83	7,565.46	471.78	129.46	6,225.43	6,080.48	96.96	42.950
7,357.00	5,633.69	1,514.91	-553.27	16.92	12,826.00	5,850.83	7,565.46	471.78	129.46	6,137.51	5,991.31	93.80	41.980
7,446.00	5,633.63	1,603.88	-555.08	17.43	12,826.00	5,850.83	7,565.46	471.78	129.46	6,050.13	5,904.33	96.60	41.495
7,536.00	5,633.80	1,693.86	-553.26	17.97	12,826.00	5,850.83	7,565.46	471.78	129.46	5,961.17	5,814.48	93.95	40.638
7,625.00	5,633.77	1,782.78	-549.52	18.53	12,826.00	5,850.83	7,565.46	471.78	129.46	5,872.96	5,727.90	100.87	40.488
7,715.00	5,633.15	1,872.64	-544.66	19.13	12,826.00	5,850.83	7,565.46	471.78	129.46	5,783.65	5,637.93	100.88	39.692
7,804.00	5,632.58	1,961.42	-538.43	19.74	12,826.00	5,850.83	7,565.46	471.78	129.46	5,695.19	5,550.91	104.05	39.475
7,894.00	5,632.36	2,051.28	-533.76	20.38	12,826.00	5,850.83	7,565.46	471.78	129.46	5,605.95	5,456.79	95.73	37.584
7,983.00	5,632.33	2,140.25	-531.42	21.03	12,826.00	5,850.83	7,565.46	471.78	129.46	5,518.04	5,368.87	97.44	36.992
8,073.00	5,631.53	2,230.22	-529.75	21.71	12,826.00	5,850.83	7,565.46	471.78	129.46	5,429.31	5,280.07	100.53	36.379
8,160.00	5,630.39	2,317.21	-530.39	22.39	12,826.00	5,850.83	7,565.46	471.78	129.46	5,343.99	5,193.01	97.96	35.395
8,250.00	5,629.66	2,407.19	-531.98	23.10	12,826.00	5,850.83	7,565.46	471.78	129.46	5,255.96	5,103.90	96.75	34.564
8,339.00	5,631.29	2,496.12	-534.84	23.81	12,826.00	5,850.83	7,565.46	471.78	129.46	5,169.24	5,015.94	84.66	33.719
8,427.00	5,634.25	2,584.03	-537.46	24.52	12,826.00	5,850.83	7,565.46	471.78	129.46	5,083.53	4,929.19	88.57	32.938
8,519.00	5,634.54	2,676.01	-536.48	25.26	12,826.00	5,850.83	7,565.46	471.78	129.46	4,993.23	4,841.72	102.50	32.957
8,611.00	5,632.12	2,767.93	-533.73	26.00	12,826.00	5,850.83	7,565.46	471.78	129.46	4,902.73	4,752.56	106.52	32.647

**Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1**

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

Offset Design: Sec. 21-T10N-R58W - Razor #21C-2808B - Existing Well - Customer Supplied Surveys

Scan Range: 0.00 to 13,179.06 usft. Measured Depth.

Scan Radius is 9,999.98 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
8,703.00	5,629.56	2,859.87	-531.44	26.74	12,826.00	5,850.83	7,565.46	471.78	129.46	4,812.38	4,659.38	102.73	31.452
8,795.00	5,628.84	2,951.85	-530.93	27.50	12,826.00	5,850.83	7,565.46	471.78	129.46	4,722.38	4,565.34	94.06	30.072
8,887.00	5,629.56	3,043.83	-533.07	28.29	12,826.00	5,850.83	7,565.46	471.78	129.46	4,633.02	4,474.88	92.67	29.297
8,980.00	5,630.16	3,136.77	-536.18	29.08	12,826.00	5,850.83	7,565.46	471.78	129.46	4,543.03	4,384.33	94.33	28.627
9,071.00	5,630.87	3,227.71	-539.44	29.85	12,826.00	5,850.83	7,565.46	471.78	129.46	4,455.15	4,295.37	92.11	27.883
9,163.00	5,633.00	3,319.66	-541.53	30.61	12,826.00	5,850.83	7,565.46	471.78	129.46	4,366.11	4,205.75	87.56	27.227
9,253.00	5,635.48	3,409.62	-541.25	31.36	12,826.00	5,850.83	7,565.46	471.78	129.46	4,278.56	4,117.60	90.18	26.581
9,345.00	5,636.36	3,501.59	-539.43	32.13	12,826.00	5,850.83	7,565.46	471.78	129.46	4,188.82	4,028.10	96.51	26.064
9,436.00	5,635.97	3,592.58	-537.95	32.90	12,826.00	5,850.83	7,565.46	471.78	129.46	4,100.25	3,938.63	96.82	25.370
9,528.00	5,636.55	3,684.58	-537.56	33.69	12,826.00	5,850.83	7,565.46	471.78	129.46	4,011.07	3,847.64	91.20	24.543
9,620.00	5,638.86	3,776.54	-537.06	34.47	12,826.00	5,850.83	7,565.46	471.78	129.46	3,921.97	3,757.87	88.23	23.900
9,711.00	5,640.63	3,867.50	-535.13	35.24	12,826.00	5,850.83	7,565.46	471.78	129.46	3,833.62	3,669.35	94.01	23.338
9,803.00	5,640.74	3,959.44	-531.68	36.02	12,826.00	5,850.83	7,565.46	471.78	129.46	3,744.09	3,579.95	97.17	22.810
9,894.00	5,641.49	4,050.39	-528.95	36.81	12,826.00	5,850.83	7,565.46	471.78	129.46	3,655.81	3,489.41	90.74	21.970
9,985.00	5,643.18	4,141.36	-527.59	37.60	12,826.00	5,850.83	7,565.46	471.78	129.46	3,568.00	3,400.84	91.98	21.345
10,000.00	5,643.51	4,156.35	-527.34	37.68	12,826.00	5,850.83	7,565.46	471.78	129.46	3,553.54	3,386.29	89.09	21.248
10,029.66	5,644.79	4,185.97	-526.53	37.77	12,826.00	5,850.83	7,565.46	471.78	129.46	3,524.87	3,358.67	82.95	21.209
10,100.00	5,648.67	4,256.19	-525.37	37.98	12,826.00	5,850.83	7,565.46	471.78	129.46	3,457.17	3,289.96	84.49	20.675
10,129.86	5,650.25	4,286.01	-525.65	38.07	12,826.00	5,850.83	7,565.46	471.78	129.46	3,428.69	3,261.15	85.04	20.464
10,160.81	5,651.74	4,316.92	-526.09	38.17	12,826.00	5,850.83	7,565.46	471.78	129.46	3,399.23	3,231.40	86.44	20.254
10,200.00	5,653.46	4,356.07	-526.51	38.29	12,826.00	5,850.83	7,565.46	471.78	129.46	3,361.92	3,193.97	86.44	20.017
10,300.00	5,657.85	4,455.97	-527.59	38.63	12,826.00	5,850.83	7,565.46	471.78	129.46	3,266.92	3,098.63	86.44	19.412
10,400.00	5,662.23	4,555.87	-528.66	38.99	12,826.00	5,850.83	7,565.46	471.78	129.46	3,172.23	3,003.58	86.44	18.810
10,500.00	5,666.62	4,655.77	-529.74	39.37	12,826.00	5,850.83	7,565.46	471.78	129.46	3,077.87	2,908.85	86.44	18.209
10,600.00	5,671.00	4,755.66	-530.82	39.77	12,826.00	5,850.83	7,565.46	471.78	129.46	2,983.88	2,814.46	86.44	17.612
10,700.00	5,675.39	4,855.56	-531.89	40.19	12,826.00	5,850.83	7,565.46	471.78	129.46	2,890.30	2,720.45	86.44	17.017
10,800.00	5,679.77	4,955.46	-532.97	40.63	12,826.00	5,850.83	7,565.46	471.78	129.46	2,797.15	2,626.87	86.44	16.427
10,900.00	5,684.16	5,055.36	-534.04	41.08	12,826.00	5,850.83	7,565.46	471.78	129.46	2,704.50	2,533.76	86.44	15.840
10,919.26	5,685.00	5,074.60	-534.25	41.17	12,826.00	5,850.83	7,565.46	471.78	129.46	2,686.72	2,515.89	86.44	15.727
10,975.26	5,687.01	5,130.56	-534.54	41.44	12,826.00	5,850.83	7,565.46	471.78	129.46	2,634.99	2,463.80	88.56	15.391
11,000.00	5,687.70	5,155.29	-534.53	41.56	12,826.00	5,850.83	7,565.46	471.78	129.46	2,612.15	2,440.83	88.56	15.247
11,100.00	5,690.48	5,255.25	-534.48	42.05	12,826.00	5,850.83	7,565.46	471.78	129.46	2,520.15	2,348.33	88.56	14.668
11,200.00	5,693.27	5,355.21	-534.44	42.56	12,826.00	5,850.83	7,565.46	471.78	129.46	2,428.78	2,256.46	88.56	14.095
11,300.00	5,696.05	5,455.17	-534.39	43.09	12,826.00	5,850.83	7,565.46	471.78	129.46	2,338.12	2,165.27	88.56	13.527
11,400.00	5,698.83	5,555.14	-534.35	43.63	12,826.00	5,850.83	7,565.46	471.78	129.46	2,248.25	2,074.86	88.56	12.966
11,500.00	5,701.62	5,655.10	-534.30	44.18	12,826.00	5,850.83	7,565.46	471.78	129.46	2,159.27	1,985.33	88.56	12.413
11,600.00	5,704.40	5,755.06	-534.26	44.76	12,826.00	5,850.83	7,565.46	471.78	129.46	2,071.30	1,896.78	88.56	11.869
11,621.40	5,705.00	5,776.45	-534.25	44.88	12,826.00	5,850.83	7,565.46	471.78	129.46	2,052.62	1,877.98	88.56	11.753
11,703.35	5,706.11	5,858.39	-534.23	45.36	12,826.00	5,850.83	7,565.46	471.78	129.46	1,981.59	1,806.48	91.41	11.316
11,800.00	5,706.04	5,955.04	-534.23	45.94	12,826.00	5,850.83	7,565.46	471.78	129.46	1,898.96	1,723.27	91.41	10.809
11,900.00	5,705.96	6,055.04	-534.23	46.55	12,826.00	5,850.83	7,565.46	471.78	129.46	1,814.93	1,638.63	91.41	10.294
12,000.00	5,705.89	6,155.04	-534.24	47.18	12,826.00	5,850.83	7,565.46	471.78	129.46	1,732.60	1,555.67	91.41	9.793
12,100.00	5,705.81	6,255.04	-534.24	47.81	12,826.00	5,850.83	7,565.46	471.78	129.46	1,652.22	1,474.65	91.41	9.305
12,200.00	5,705.74	6,355.04	-534.24	48.46	12,826.00	5,850.83	7,565.46	471.78	129.46	1,574.09	1,395.87	91.41	8.833
12,300.00	5,705.66	6,455.04	-534.24	49.12	12,826.00	5,850.83	7,565.46	471.78	129.46	1,498.56	1,319.68	91.41	8.378
12,400.00	5,705.59	6,555.04	-534.24	49.79	12,826.00	5,850.83	7,565.46	471.78	129.46	1,426.04	1,246.50	91.41	7.943
12,500.00	5,705.51	6,655.04	-534.24	50.47	12,826.00	5,850.83	7,565.46	471.78	129.46	1,357.03	1,176.80	91.41	7.530
12,600.00	5,705.44	6,755.04	-534.24	51.16	12,826.00	5,850.83	7,565.46	471.78	129.46	1,292.07	1,111.15	91.41	7.142
12,700.00	5,705.36	6,855.04	-534.24	51.86	12,826.00	5,850.83	7,565.46	471.78	129.46	1,231.81	1,050.20	91.41	6.783
12,800.00	5,705.29	6,955.04	-534.25	52.57	12,826.00	5,850.83	7,565.46	471.78	129.46	1,176.98	994.66	91.41	6.455
12,900.00	5,705.21	7,055.04	-534.25	53.28	12,826.00	5,850.83	7,565.46	471.78	129.46	1,128.37	945.32	91.41	6.165
13,000.00	5,705.13	7,155.04	-534.25	54.01	12,826.00	5,850.83	7,565.46	471.78	129.46	1,086.80	903.03	91.41	5.914

**Anticollision Report for Razor #33N-2805 - Rev D0\_ST-1**

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

Offset Design: Sec. 21-T10N-R58W - Razor #21C-2808B - Existing Well - Customer Supplied Surveys

Scan Range: 0.00 to 13,179.06 usft. Measured Depth.

Scan Radius is 9,999.98 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
13,100.00	5,705.06	7,255.04	-534.25	54.74	12,826.00	5,850.83	7,565.46	471.78	129.46	1,053.12	868.61	91.41	5.708
13,179.06	5,705.00	7,334.10	-534.25	55.33	12,826.00	5,850.83	7,565.46	471.78	129.46	1,032.58	847.50	91.41	5.579

**Survey tool program**

From (usft)	To (usft)	Survey/Plan	Survey Tool
140.00	1,484.00		MWD+IFR1+MS+sag
1,611.00	6,032.00		MWD+IFR1+MS+sag
6,105.00	9,985.00		MWD+IFR1+MS+sag
9,985.00	13,179.03	Rev D0_ST-1	MWD+IFR1+MS+sag

**Anticollision Info**

Error Model: ISCWSA  
 Scan Method: Closest Approach 3D

Output errors are at 2.00 sigma

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 #33N-2805 - Rev D0\_ST-1

Direction and Coordinates are relative to True North Reference .  
Vertical Depths are relative to KB 17 ft @ 4740.00usft (Xtreme 18). Northing and Easting are relative to Razor #33N-2805  
Coordinate System is US State Plane 1983, Colorado Northern Zone  
Central Meridian is -105.00°, Grid Convergence at Surface is: 1.05°

