



Weatherford International Ltd.

Anticollision Report

30 015-40196



Weatherford

Company: Occidental Permian Ltd.
Field: Eddy Co, NM (Nad 27)
Reference Site: Smokey Bits State 2H
Reference Well: Smokey Bits State 2H
Reference Wellpath: 1

Date: 4/11/2012

Time: 12:12:35

Page: 1

Co-ordinate(NE) Reference: Well Smokey Bits State 2H, Grid North
Vertical (TVD) Reference: SITE 3453 7

Db: Sybase

NO GLOBAL SCAN: Using user defined selection & scan criteria

Interpolation Method: MD Interval: 30.00 ft

Depth Range: 0.00 to 13094.41 ft

Maximum Radius: 10000 00 ft

Reference: Plan Plan #3

Error Model: ISCWSA Ellipse

Scan Method: Closest Approach 3D

Error Surface: Ellipse

Plan: Plan #3

Date Composed: 1/9/2012

Principal: Yes

Version: 1

Tied-to: From Surface

Summary

Site	Well	Wellpath	Reference MD ft	Offset MD ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
Exist Smokey St 1	Exist Smokey St 1	180 Azm V0	10110 00	8634.12	340.75	263 71	4.42	
Exist Smokey St 1	Exist Smokey St 1	38 Azm V0	10230 00	8641.64	37.91	-32 38	0 54	Level 1
Smokey Bits 6H	Smokey Bits 6H	1 V0 Plan Plan #1 V1	13094 41	12859.45	1044.11	807.61	4.41	
Smokey Bits State C&H		1 V1	13094 41	12906 00	1309.23	1071.49	5 51	

Site: Exist Smokey St 1

Well: Exist Smokey St 1

Wellpath: 180 Azm V0

Inter-Site Error: 0.00 ft

Reference MD ft	TVD ft	Offset MD ft	TVD ft	Semi-Major Axis Ref ft	Offset ft	TFO-HS deg	Offset Location North ft	East ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
0 00	0 00	110 66	110.65	0 00	0.11	96.59	-215 93	1870.40	1882.83	1882.72	16940 32	
30 00	30.00	139.69	139.68	0.01	0.14	96 60	-216 49	1870 40	1882.89	1882.75	12904.86	
60 00	60.00	168.72	168.70	0.04	0.17	96 62	-217 17	1870.40	1882.97	1882.77	9020 26	
90 00	90.00	197.75	197.72	0.07	0.20	96 65	-217 99	1870.40	1883.07	1882.80	6933 78	
120.00	120.00	226.97	226.93	0 13	0 27	96.68	-218.92	1870 40	1883 18	1882 79	4782.23	
150.00	150.00	256.21	256.15	0 20	0.34	96.71	-219.95	1870 40	1883 31	1882 78	3546.09	
180.00	180.00	285.44	285 36	0 26	0.41	96.74	-221 09	1870 40	1883.44	1882.77	2815 46	
210 00	210.00	314.67	314 56	0.33	0.48	96 78	-222 32	1870.40	1883.59	1882 78	2334 46	
240.00	240.00	343.88	343 74	0.40	0 55	96 82	-223 64	1870.40	1883.75	1882 81	1995 06	
270.00	270.00	373.42	373 25	0 47	0.62	96.86	-225 07	1870.40	1883.93	1882.84	1739 09	
300.00	300.00	403.06	402 85	0.53	0.69	96.91	-226 55	1870 40	1884 10	1882 88	1540.72	
330.00	330.00	432.70	432.45	0 60	0.76	96.95	-228 06	1870 40	1884.29	1882.93	1383 01	
360.00	360.00	463.29	462.99	0.67	0.83	97 00	-229.63	1870.40	1884 48	1882 98	1258 51	
390.00	390.00	494.32	493.99	0.74	0.89	97 04	-231.08	1870.40	1884 65	1883 02	1156 22	
420 00	420.00	525.36	525.01	0.80	0.96	97 08	-232 39	1870.40	1884.80	1883 04	1069 30	
450 00	450.00	555.67	555.29	0 87	1.02	97 12	-233 58	1870 40	1884 95	1883 06	997 38	
480.00	480.00	585.85	585.45	0.94	1.08	97 15	-234 73	1870.40	1885.09	1883.08	935 06	
510.00	510.00	616.02	615.61	1 01	1.14	97.19	-235 85	1870 40	1885 23	1883.09	880.08	
540.00	540.00	646.21	645.77	1 07	1 20	97.22	-236 95	1870.40	1885.37	1883.10	831 21	
570 00	570.00	676.39	675.93	1.14	1.25	97 25	-238 02	1870.40	1885 50	1883 11	787.49	
600 00	600.00	706.58	706.10	1.21	1 32	97 28	-239.07	1870.40	1885 63	1883 11	747 13	
630 00	630.00	736 77	736.28	1.28	1 38	97.31	-240.09	1870 40	1885 76	1883 11	710 39	
660 00	660.00	766 97	766 46	1.34	1 44	97.34	-241.09	1870.40	1885 89	1883 10	677 09	
690 00	690.00	797 16	796 64	1.41	1 51	97 37	-242 06	1870.40	1886.01	1883 10	646 78	
720.00	720.00	827 36	826 82	1.48	1.57	97.40	-243 00	1870 40	1886.13	1883.09	619 07	
750 00	750.00	857 40	856 85	1.55	1 63	97 43	-243.92	1870.40	1886 25	1883.07	593 44	
780.00	780.00	887.39	886 82	1.61	1.70	97.46	-244 83	1870.40	1886.37	1883.06	569 82	
810 00	810.00	917 37	916.79	1.68	1 76	97.49	-245 75	1870 40	1886.49	1883.05	548.02	
840.00	840.00	947.36	946.76	1.75	1.83	97.51	-246 66	1870.40	1886.61	1883.04	527.82	
870.00	870.00	977 35	976.74	1.81	1 89	97.54	-247.58	1870 40	1886 73	1883.02	509.06	
900 00	900.00	1007 44	1006 81	1.88	1.96	97.57	-248.49	1870.40	1886 85	1883.01	491.57	
930.00	930.00	1037 63	1036 99	1.95	2 02	97.59	-249.39	1870.40	1886.97	1883.00	475.24	
960 00	960.00	1067 82	1067 17	2.02	2 09	97 62	-250.26	1870.40	1887 08	1882.98	459.96	
990.00	990.00	1098 01	1097 35	2.08	2.15	97.65	-251.11	1870.40	1887.19	1882.96	445.64	
1020.00	1020.00	1128.21	1127.53	2.15	2 22	97 67	-251.93	1870.40	1887.30	1882.94	432.18	



Weatherford International Ltd.

Anticollision Report



Weatherford

Company: Occidental Permian Ltd.
Field: Eddy Co, NM (Nad 27)
Reference Site: Smokey Bits State 2H
Reference Well: Smokey Bits State 2H
Reference Wellpath: 1

Date: 4/11/2012

Time: 12:12:35

Page: 2

Co-ordinate(NE) Reference: Well: Smokey Bits State 2H, Grid North
Vertical (TVD) Reference: SITE 3453 7

Db: Sybase

Site: Exist Smokey St 1
Well: Exist Smokey St 1
Wellpath: 180 Azm V0

Inter-Site Error: 0 00 ft

Reference MD	Reference TVD	Offset MD	Offset TVD	Semi-Major Axis Ref	Semi-Major Axis Offset	TFO-HS	Offset North	Offset East	Ctr-Ctr Distance	Edge Distance	Separation Factor	Warning
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
1050.00	1050.00	1158.33	1157.64	2 22	2.28	97.70	-252.73	1870.40	1887.41	1882.91	419.51	
1080.00	1080.00	1188.11	1187.42	2 29	2.34	97.72	-253.53	1870.40	1887.52	1882.89	407.61	
1110.00	1110.00	1217.89	1217.18	2.35	2.41	97.74	-254.35	1870.40	1887.63	1882.87	396.37	
1140.00	1140.00	1247.67	1246.95	2.42	2.47	97.77	-255.19	1870.40	1887.74	1882.85	385.74	
1170.00	1170.00	1277.44	1276.71	2.49	2.54	97.80	-256.06	1870.40	1887.86	1882.84	375.66	
1200.00	1200.00	1307.22	1306.48	2.56	2.60	97.82	-256.96	1870.40	1887.98	1882.83	366.10	
1230.00	1230.00	1336.99	1336.24	2.62	2.67	97.85	-257.88	1870.40	1888.11	1882.82	357.02	
1260.00	1260.00	1366.77	1365.99	2.69	2.73	97.88	-258.82	1870.40	1888.24	1882.82	348.38	
1290.00	1290.00	1396.54	1395.75	2.76	2.79	97.91	-259.79	1870.40	1888.37	1882.82	340.15	
1320.00	1320.00	1426.31	1425.50	2.83	2.86	97.94	-260.78	1870.40	1888.51	1882.83	332.30	
1350.00	1350.00	1456.07	1455.25	2.89	2.92	97.97	-261.79	1870.40	1888.65	1882.84	324.81	
1380.00	1380.00	1485.96	1485.12	2.96	2.99	98.00	-262.83	1870.40	1888.80	1882.85	317.58	
1410.00	1410.00	1515.94	1515.09	3.03	3.05	98.03	-263.88	1870.40	1888.95	1882.86	310.63	
1440.00	1440.00	1545.93	1545.05	3.10	3.12	98.06	-264.93	1870.40	1889.09	1882.88	303.98	
1470.00	1470.00	1575.91	1575.01	3.16	3.19	98.09	-265.97	1870.40	1889.24	1882.89	297.61	
1500.00	1500.00	1605.89	1604.98	3.23	3.25	98.12	-267.02	1870.40	1889.39	1882.91	291.51	
1530.00	1530.00	1635.87	1634.94	3.30	3.32	98.16	-268.07	1870.40	1889.54	1882.92	285.65	
1560.00	1560.00	1665.78	1664.83	3.37	3.38	98.19	-269.11	1870.40	1889.68	1882.94	280.00	
1590.00	1590.00	1695.45	1694.48	3.43	3.45	98.22	-270.17	1870.40	1889.84	1882.95	274.55	
1620.00	1620.00	1725.11	1724.12	3.50	3.52	98.25	-271.27	1870.40	1890.00	1882.98	269.32	
1650.00	1650.00	1754.77	1753.76	3.57	3.59	98.29	-272.40	1870.40	1890.16	1883.01	264.28	
1680.00	1680.00	1784.43	1783.40	3.64	3.65	98.32	-273.56	1870.40	1890.33	1883.04	259.42	
1710.00	1710.00	1814.09	1813.03	3.70	3.72	98.36	-274.76	1870.40	1890.51	1883.09	254.75	
1740.00	1740.00	1843.74	1842.65	3.77	3.79	98.39	-275.99	1870.40	1890.69	1883.13	250.24	
1770.00	1770.00	1873.39	1872.28	3.84	3.85	98.43	-277.26	1870.40	1890.88	1883.19	245.89	
1800.00	1800.00	1903.86	1902.72	3.91	3.92	98.47	-278.56	1870.40	1891.07	1883.24	241.68	
1830.00	1830.00	1934.63	1933.46	3.97	3.99	98.51	-279.80	1870.40	1891.24	1883.28	237.62	
1860.00	1860.00	1965.40	1964.22	4.04	4.06	98.54	-280.94	1870.40	1891.41	1883.31	233.68	
1890.00	1890.00	1995.66	1994.45	4.11	4.12	98.57	-282.00	1870.40	1891.57	1883.34	229.92	
1920.00	1920.00	2025.64	2024.42	4.18	4.19	98.61	-283.05	1870.40	1891.72	1883.36	226.30	
1950.00	1950.00	2055.62	2054.38	4.24	4.25	98.64	-284.10	1870.40	1891.88	1883.39	222.79	
1980.00	1980.00	2085.60	2084.34	4.31	4.32	98.67	-285.14	1870.40	1892.04	1883.41	219.36	
2010.00	2010.00	2115.58	2114.31	4.38	4.39	98.70	-286.19	1870.40	1892.19	1883.43	216.00	
2040.00	2040.00	2145.56	2144.27	4.44	4.45	98.73	-287.24	1870.40	1892.35	1883.46	212.73	
2070.00	2070.00	2175.55	2174.23	4.51	4.52	98.76	-288.28	1870.40	1892.51	1883.48	209.57	
2100.00	2100.00	2205.53	2204.20	4.58	4.59	98.79	-289.33	1870.40	1892.67	1883.51	206.50	
2130.00	2130.00	2235.51	2234.16	4.65	4.66	98.82	-290.38	1870.40	1892.83	1883.53	203.52	
2160.00	2160.00	2265.49	2264.12	4.71	4.73	98.86	-291.42	1870.40	1892.99	1883.56	200.61	
2190.00	2190.00	2295.47	2294.09	4.78	4.79	98.89	-292.47	1870.40	1893.16	1883.58	197.78	
2220.00	2220.00	2325.45	2324.05	4.85	4.86	98.92	-293.51	1870.40	1893.32	1883.61	195.04	
2250.00	2250.00	2355.44	2354.01	4.92	4.93	98.95	-294.56	1870.40	1893.48	1883.64	192.37	
2280.00	2280.00	2385.42	2383.98	4.98	5.00	98.98	-295.61	1870.40	1893.64	1883.66	189.77	
2310.00	2310.00	2415.40	2413.94	5.05	5.07	99.01	-296.65	1870.40	1893.81	1883.69	187.24	
2340.00	2340.00	2445.38	2443.90	5.12	5.13	99.04	-297.70	1870.40	1893.97	1883.72	184.78	
2370.00	2370.00	2475.36	2473.87	5.19	5.20	99.07	-298.75	1870.40	1894.14	1883.75	182.38	
2400.00	2400.00	2505.35	2503.83	5.25	5.27	99.11	-299.79	1870.40	1894.30	1883.78	180.05	
2430.00	2430.00	2535.33	2533.79	5.32	5.34	99.14	-300.84	1870.40	1894.47	1883.81	177.77	
2460.00	2460.00	2565.42	2563.87	5.39	5.41	99.17	-301.89	1870.40	1894.63	1883.84	175.59	
2490.00	2490.00	2595.60	2594.03	5.46	5.47	99.20	-302.92	1870.40	1894.80	1883.88	173.48	
2520.00	2520.00	2625.77	2624.19	5.52	5.53	99.23	-303.93	1870.40	1894.96	1883.91	171.43	
2550.00	2550.00	2655.95	2654.35	5.59	5.60	99.26	-304.93	1870.40	1895.12	1883.93	169.42	



Weatherford International Ltd.

Anticollision Report



Weatherford

Company: Occidental Permian Ltd.
Field: Eddy Co, NM (Nad 27)
Reference Site: Smokey Bits State 2H
Reference Well: Smokey Bits State 2H
Reference Wellpath: 1

Date: 4/11/2012

Time: 12.12:35

Page: 3

Co-ordinate(NE) Reference: Well: Smokey Bits State 2H, Grnd North
Vertical (TVD) Reference: SITE 3453 7

Db: Sybase

Site: Exist Smokey St 1
Well: Exist Smokey St 1
Wellpath: 180 Azm V0

Inter-Site Error: 0 00 ft

Reference MD	TVD	Offset MD	TVD	Semi-Major Axis Ref	Offset	TFO-HS	Offset North	Location East	Ctr-Ctr Distance	Edge Distance	Separation Factor	Warning
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
2580.00	2580.00	2686.13	2684.51	5.66	5.66	99.29	-305.90	1870.40	1895.27	1883.96	167.46	
2610.00	2610.00	2716.31	2714.68	5.73	5.73	99.32	-306.86	1870.40	1895.43	1883.98	165.55	
2640.00	2640.00	2746.49	2744.84	5.79	5.79	99.34	-307.79	1870.40	1895.58	1884.00	163.68	
2670.00	2670.00	2776.67	2775.01	5.86	5.86	99.37	-308.71	1870.40	1895.73	1884.01	161.85	
2700.00	2700.00	2806.86	2805.18	5.93	5.92	99.40	-309.61	1870.40	1895.87	1884.03	160.06	
2730.00	2730.00	2837.04	2835.36	6.00	5.99	99.43	-310.49	1870.40	1896.02	1884.04	158.31	
2760.00	2760.00	2867.23	2865.53	6.06	6.05	99.45	-311.35	1870.40	1896.16	1884.05	156.60	
2790.00	2790.00	2897.42	2895.71	6.13	6.11	99.48	-312.19	1870.40	1896.29	1884.05	154.92	
2820.00	2820.00	2927.60	2925.88	6.20	6.18	99.50	-313.01	1870.40	1896.43	1884.06	153.28	
2850.00	2850.00	2957.79	2956.06	6.27	6.24	99.52	-313.81	1870.40	1896.56	1884.06	151.68	
2880.00	2880.00	2988.10	2986.36	6.33	6.31	99.55	-314.59	1870.40	1896.69	1884.06	150.14	
2910.00	2910.00	3018.42	3016.66	6.40	6.37	99.57	-315.34	1870.40	1896.81	1884.05	148.64	
2940.00	2940.00	3048.74	3046.98	6.47	6.43	99.59	-316.06	1870.40	1896.93	1884.04	147.17	
2970.00	2970.00	3079.06	3077.29	6.54	6.49	99.61	-316.74	1870.40	1897.04	1884.03	145.73	
3000.00	3000.00	3109.38	3107.61	6.60	6.55	99.63	-317.40	1870.40	1897.15	1884.01	144.31	
3030.00	3030.00	3139.71	3137.93	6.67	6.61	99.65	-318.02	1870.40	1897.25	1883.98	142.92	
3060.00	3060.00	3170.03	3168.25	6.74	6.67	99.67	-318.61	1870.40	1897.35	1883.95	141.56	
3090.00	3090.00	3200.36	3198.57	6.80	6.73	99.68	-319.18	1870.40	1897.45	1883.91	140.22	
3120.00	3120.00	3230.69	3228.89	6.87	6.79	99.70	-319.70	1870.40	1897.53	1883.87	138.91	
3150.00	3150.00	3261.02	3259.22	6.94	6.85	99.71	-320.20	1870.40	1897.62	1883.83	137.63	
3180.00	3180.00	3291.35	3289.54	7.01	6.92	99.73	-320.67	1870.40	1897.69	1883.78	136.36	
3210.00	3210.00	3321.68	3319.87	7.07	6.98	99.74	-321.10	1870.40	1897.77	1883.72	135.12	
3240.00	3240.00	3351.85	3350.04	7.14	7.04	99.75	-321.50	1870.40	1897.84	1883.66	133.90	
3270.00	3270.00	3381.71	3379.89	7.21	7.10	99.77	-321.91	1870.40	1897.90	1883.60	132.69	
3300.00	3300.00	3411.56	3409.74	7.28	7.16	99.78	-322.32	1870.40	1897.97	1883.54	131.50	
3330.00	3330.00	3441.41	3439.59	7.34	7.22	99.79	-322.75	1870.40	1898.05	1883.48	130.33	
3360.00	3360.00	3471.26	3469.44	7.41	7.29	99.80	-323.19	1870.40	1898.12	1883.43	129.19	
3390.00	3390.00	3501.11	3499.28	7.48	7.35	99.82	-323.65	1870.40	1898.20	1883.38	128.06	
3420.00	3420.00	3530.96	3529.13	7.55	7.41	99.83	-324.12	1870.40	1898.28	1883.33	126.96	
3450.00	3450.00	3560.81	3558.97	7.61	7.47	99.85	-324.60	1870.40	1898.37	1883.28	125.87	
3480.00	3480.00	3590.66	3588.82	7.68	7.54	99.86	-325.10	1870.40	1898.45	1883.24	124.80	
3510.00	3510.00	3620.51	3618.66	7.75	7.60	99.88	-325.61	1870.40	1898.54	1883.20	123.75	
3540.00	3540.00	3650.45	3648.61	7.82	7.66	99.89	-326.13	1870.40	1898.63	1883.16	122.71	
3570.00	3570.00	3680.45	3678.60	7.88	7.73	99.91	-326.65	1870.40	1898.72	1883.11	121.67	
3600.00	3600.00	3710.45	3708.59	7.95	7.79	99.92	-327.18	1870.40	1898.81	1883.07	120.65	
3630.00	3630.00	3740.44	3738.58	8.02	7.86	99.94	-327.70	1870.40	1898.90	1883.03	119.65	
3660.00	3660.00	3770.44	3768.57	8.09	7.92	99.95	-328.22	1870.40	1898.99	1882.99	118.67	
3690.00	3690.00	3800.43	3798.56	8.15	7.99	99.97	-328.75	1870.40	1899.08	1882.94	117.70	
3720.00	3720.00	3830.43	3828.55	8.22	8.05	99.98	-329.27	1870.40	1899.17	1882.90	116.75	
3750.00	3750.00	3860.42	3858.54	8.29	8.12	100.00	-329.79	1870.40	1899.26	1882.86	115.81	
3780.00	3780.00	3890.42	3888.53	8.36	8.18	100.02	-330.32	1870.40	1899.35	1882.82	114.89	
3810.00	3810.00	3920.41	3918.53	8.42	8.25	100.03	-330.84	1870.40	1899.44	1882.78	113.98	
3840.00	3840.00	3950.41	3948.52	8.49	8.31	100.05	-331.36	1870.40	1899.53	1882.74	113.09	
3870.00	3870.00	3980.40	3978.51	8.56	8.38	100.06	-331.89	1870.40	1899.63	1882.70	112.21	
3900.00	3900.00	4010.40	4008.50	8.63	8.44	100.08	-332.41	1870.40	1899.72	1882.66	111.34	
3930.00	3930.00	4040.40	4038.49	8.69	8.51	100.09	-332.93	1870.40	1899.81	1882.61	110.49	
3960.00	3960.00	4070.39	4068.48	8.76	8.57	100.11	-333.46	1870.40	1899.90	1882.57	109.65	
3990.00	3990.00	4100.46	4098.55	8.83	8.64	100.12	-333.98	1870.40	1899.99	1882.54	108.84	
4020.00	4020.00	4130.55	4128.63	8.90	8.70	100.14	-334.49	1870.40	1900.08	1882.49	108.03	
4050.00	4050.00	4160.64	4158.72	8.96	8.76	100.15	-335.00	1870.40	1900.17	1882.45	107.25	
4080.00	4080.00	4190.73	4188.80	9.03	8.82	100.17	-335.50	1870.40	1900.26	1882.41	106.47	



Weatherford International Ltd.

Anticollision Report



Weatherford

Company: Occidental Permian Ltd.
Field: Eddy Co, NM (Nad 27)
Reference Site: Smokey Bits State 2H
Reference Well: Smokey Bits State 2H
Reference Wellpath: 1

Date: 4/11/2012

Time: 12:12:35

Page: 4

Co-ordinate(NE) Reference: Well: Smokey Bits State 2H, Grid North
Vertical (TVD) Reference: SITE 3453.7

Db: Sybase

Site: Exist Smokey St 1
Well: Exist Smokey St 1
Wellpath: 180 Azm V0

Inter-Site Error: 0.00 ft

Reference MD ft	Reference TVD ft	Offset MD ft	Offset TVD ft	Semi-Major Axis Ref ft	Semi-Major Axis Offset ft	TFO-HS deg	Offset Location North ft	Offset Location East ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
4110.00	4110.00	4220.82	4218.89	9.10	8.89	100.18	-335.99	1870.40	1900.35	1882.37	105.70	
4140.00	4140.00	4250.91	4248.97	9.16	8.95	100.20	-336.47	1870.40	1900.43	1882.32	104.95	
4170.00	4170.00	4281.00	4279.06	9.23	9.01	100.21	-336.94	1870.40	1900.51	1882.27	104.20	
4200.00	4200.00	4311.09	4309.14	9.30	9.08	100.23	-337.40	1870.40	1900.60	1882.23	103.47	
4230.00	4230.00	4341.18	4339.23	9.37	9.14	100.24	-337.86	1870.40	1900.68	1882.18	102.74	
4260.00	4260.00	4371.27	4369.32	9.43	9.20	100.25	-338.30	1870.40	1900.76	1882.13	102.03	
4290.00	4290.00	4401.36	4399.41	9.50	9.26	100.27	-338.74	1870.40	1900.83	1882.07	101.32	
4320.00	4320.00	4431.45	4429.49	9.57	9.33	100.28	-339.17	1870.40	1900.91	1882.02	100.63	
4350.00	4350.00	4461.54	4459.58	9.64	9.39	100.29	-339.60	1870.40	1900.99	1881.96	99.94	
4380.00	4380.00	4491.63	4489.67	9.70	9.45	100.30	-340.01	1870.40	1901.06	1881.91	99.27	
4410.00	4410.00	4521.72	4519.76	9.77	9.52	100.32	-340.42	1870.40	1901.13	1881.85	98.60	
4440.00	4440.00	4551.80	4549.83	9.84	9.58	100.33	-340.81	1870.40	1901.20	1881.79	97.94	
4470.00	4470.00	4581.71	4579.74	9.91	9.64	100.34	-341.21	1870.40	1901.27	1881.73	97.30	
4500.00	4500.00	4611.63	4609.66	9.97	9.70	100.35	-341.61	1870.40	1901.35	1881.67	96.66	
4530.00	4530.00	4641.54	4639.57	10.04	9.77	100.36	-342.02	1870.40	1901.42	1881.62	96.03	
4560.00	4560.00	4671.46	4669.48	10.11	9.83	100.38	-342.44	1870.40	1901.50	1881.56	95.40	
4590.00	4590.00	4701.37	4699.39	10.18	9.89	100.39	-342.86	1870.40	1901.57	1881.51	94.79	
4620.00	4620.00	4731.29	4729.30	10.24	9.95	100.40	-343.30	1870.40	1901.65	1881.46	94.18	
4650.00	4650.00	4761.20	4759.21	10.31	10.02	100.41	-343.74	1870.40	1901.73	1881.41	93.58	
4680.00	4680.00	4791.11	4789.12	10.38	10.08	100.43	-344.18	1870.40	1901.81	1881.36	92.99	
4710.00	4710.00	4821.03	4819.03	10.45	10.14	100.44	-344.64	1870.40	1901.89	1881.31	92.41	
4740.00	4740.00	4850.94	4848.94	10.51	10.20	100.45	-345.10	1870.40	1901.98	1881.27	91.83	
4770.00	4770.00	4880.85	4878.85	10.58	10.27	100.47	-345.56	1870.40	1902.06	1881.22	91.26	
4800.00	4800.00	4910.77	4908.76	10.65	10.33	100.48	-346.04	1870.40	1902.15	1881.18	90.70	
4830.00	4830.00	4940.68	4938.67	10.72	10.39	100.50	-346.52	1870.40	1902.24	1881.14	90.15	
4860.00	4860.00	4970.59	4968.58	10.78	10.45	100.51	-347.01	1870.40	1902.33	1881.10	89.60	
4890.00	4890.00	5000.50	4998.49	10.85	10.52	100.53	-347.51	1870.40	1902.42	1881.06	89.06	
4920.00	4920.00	5030.41	5028.39	10.92	10.58	100.54	-348.01	1870.40	1902.51	1881.02	88.52	
4950.00	4950.00	5060.33	5058.30	10.99	10.64	100.56	-348.52	1870.40	1902.60	1880.98	88.00	
4980.00	4980.00	5090.24	5088.21	11.05	10.71	100.57	-349.04	1870.40	1902.70	1880.95	87.47	
5010.00	5010.00	5120.23	5118.20	11.12	10.77	100.59	-349.57	1870.40	1902.80	1880.91	86.95	
5040.00	5040.00	5150.23	5148.19	11.19	10.84	100.60	-350.09	1870.40	1902.89	1880.87	86.43	
5070.00	5070.00	5180.22	5178.18	11.26	10.90	100.62	-350.61	1870.40	1902.99	1880.84	85.91	
5100.00	5100.00	5210.22	5208.17	11.32	10.97	100.63	-351.14	1870.40	1903.08	1880.80	85.41	
5130.00	5130.00	5240.22	5238.16	11.39	11.03	100.65	-351.66	1870.40	1903.18	1880.77	84.90	
5160.00	5160.00	5270.21	5268.15	11.46	11.10	100.66	-352.18	1870.40	1903.28	1880.73	84.41	
5190.00	5190.00	5300.21	5298.14	11.52	11.16	100.68	-352.71	1870.40	1903.37	1880.69	83.92	
5220.00	5220.00	5330.20	5328.13	11.59	11.23	100.69	-353.23	1870.40	1903.47	1880.66	83.43	
5250.00	5250.00	5360.20	5358.13	11.66	11.29	100.71	-353.75	1870.40	1903.57	1880.62	82.96	
5280.00	5280.00	5390.19	5388.12	11.73	11.36	100.73	-354.28	1870.40	1903.67	1880.59	82.48	
5310.00	5310.00	5420.19	5418.11	11.79	11.43	100.74	-354.80	1870.40	1903.76	1880.55	82.01	
5340.00	5340.00	5450.18	5448.10	11.86	11.49	100.76	-355.32	1870.40	1903.86	1880.52	81.55	
5370.00	5370.00	5480.18	5478.09	11.93	11.56	100.77	-355.85	1870.40	1903.96	1880.48	81.10	
5400.00	5400.00	5510.17	5508.08	12.00	11.62	100.79	-356.37	1870.40	1904.06	1880.45	80.64	
5430.00	5430.00	5540.17	5538.07	12.06	11.69	100.80	-356.89	1870.40	1904.16	1880.41	80.20	
5460.00	5460.00	5570.15	5568.04	12.13	11.75	100.82	-357.42	1870.40	1904.25	1880.38	79.75	
5490.00	5490.00	5600.04	5597.94	12.20	11.82	100.83	-357.95	1870.40	1904.35	1880.34	79.32	
5520.00	5520.00	5629.94	5627.83	12.27	11.88	100.85	-358.48	1870.40	1904.45	1880.31	78.88	
5550.00	5550.00	5659.84	5657.72	12.33	11.95	100.87	-359.03	1870.40	1904.56	1880.28	78.45	
5580.00	5580.00	5689.73	5687.61	12.40	12.02	100.88	-359.58	1870.40	1904.66	1880.25	78.03	
5610.00	5610.00	5719.63	5717.50	12.47	12.08	100.90	-360.14	1870.40	1904.77	1880.22	77.61	



Weatherford International Ltd.

Anticollision Report



Weatherford

Company: Occidental Permian Ltd.
Field: Eddy Co, NM (Nad 27)
Reference Site: Smokey Bits State 2H
Reference Well: Smokey Bits State 2H
Reference Wellpath: 1

Date: 4/11/2012

Time: 12:12:35

Page: 5

Co-ordinate(NE) Reference: Well: Smokey Bits State 2H, Grid North
Vertical (TVD) Reference: SITE 3453.7

Db: Sybase

Site: Exist Smokey St 1
Well: Exist Smokey St 1
Wellpath: 180 Azm V0

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr	Edge	Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
5640.00	5640.00	5749.52	5747.39	12.54	12.15	100.92	-360.71	1870.40	1904.88	1880.20	77.19	
5670.00	5670.00	5779.41	5777.27	12.60	12.21	100.93	-361.28	1870.40	1904.99	1880.18	76.78	
5700.00	5700.00	5809.31	5807.16	12.67	12.28	100.95	-361.87	1870.40	1905.10	1880.15	76.38	
5730.00	5730.00	5839.20	5837.05	12.74	12.35	100.97	-362.46	1870.40	1905.21	1880.13	75.98	
5760.00	5760.00	5869.09	5866.94	12.81	12.41	100.99	-363.06	1870.40	1905.33	1880.12	75.58	
5790.00	5790.00	5898.99	5896.82	12.87	12.48	101.00	-363.67	1870.40	1905.44	1880.10	75.19	
5820.00	5820.00	5928.88	5926.71	12.94	12.54	101.02	-364.29	1870.40	1905.56	1880.08	74.80	
5850.00	5850.00	5958.77	5956.60	13.01	12.61	101.04	-364.92	1870.40	1905.68	1880.07	74.41	
5880.00	5880.00	5988.66	5986.48	13.08	12.68	101.06	-365.56	1870.40	1905.80	1880.06	74.03	
5910.00	5910.00	6018.56	6016.37	13.14	12.74	101.08	-366.20	1870.40	1905.93	1880.05	73.66	
5940.00	5940.00	6048.45	6046.25	13.21	12.81	101.10	-366.85	1870.40	1906.05	1880.04	73.28	
5970.00	5970.00	6078.35	6076.14	13.28	12.87	101.12	-367.51	1870.40	1906.18	1880.04	72.91	
6000.00	6000.00	6108.25	6106.03	13.35	12.94	101.14	-368.18	1870.40	1906.31	1880.03	72.54	
6030.00	6030.00	6138.14	6135.92	13.41	13.01	101.16	-368.85	1870.40	1906.44	1880.03	72.18	
6060.00	6060.00	6168.04	6165.81	13.48	13.07	101.18	-369.53	1870.40	1906.57	1880.03	71.82	
6090.00	6090.00	6197.94	6195.70	13.55	13.14	101.20	-370.23	1870.40	1906.71	1880.03	71.46	
6120.00	6120.00	6227.83	6225.59	13.62	13.21	101.22	-370.92	1870.40	1906.84	1880.03	71.11	
6150.00	6150.00	6257.73	6255.48	13.68	13.28	101.24	-371.63	1870.40	1906.98	1880.03	70.76	
6180.00	6180.00	6287.62	6285.36	13.75	13.34	101.26	-372.34	1870.40	1907.12	1880.04	70.42	
6210.00	6210.00	6317.52	6315.25	13.82	13.41	101.28	-373.06	1870.40	1907.26	1880.05	70.08	
6240.00	6240.00	6347.41	6345.13	13.88	13.48	101.30	-373.79	1870.40	1907.41	1880.06	69.74	
6270.00	6270.00	6377.31	6375.02	13.95	13.54	101.32	-374.53	1870.40	1907.55	1880.07	69.40	
6300.00	6300.00	6407.20	6404.90	14.02	13.61	101.35	-375.27	1870.40	1907.70	1880.08	69.07	
6330.00	6330.00	6437.09	6434.79	14.09	13.68	101.37	-376.03	1870.40	1907.85	1880.09	68.74	
6360.00	6360.00	6466.99	6464.67	14.15	13.74	101.39	-376.79	1870.40	1908.00	1880.11	68.42	
6390.00	6390.00	6496.88	6494.55	14.22	13.81	101.41	-377.55	1870.40	1908.15	1880.13	68.09	
6420.00	6420.00	6526.77	6524.44	14.29	13.88	101.44	-378.33	1870.40	1908.30	1880.15	67.78	
6450.00	6450.00	6556.72	6554.37	14.36	13.94	101.46	-379.11	1870.40	1908.46	1880.17	67.46	
6480.00	6480.00	6586.71	6584.35	14.42	14.01	101.48	-379.90	1870.40	1908.62	1880.19	67.14	
6510.00	6510.00	6616.70	6614.33	14.49	14.08	101.50	-380.68	1870.40	1908.77	1880.21	66.83	
6540.00	6540.00	6646.69	6644.31	14.56	14.15	101.53	-381.47	1870.40	1908.93	1880.23	66.52	
6570.00	6570.00	6676.68	6674.29	14.63	14.21	101.55	-382.25	1870.40	1909.09	1880.26	66.22	
6600.00	6600.00	6706.67	6704.27	14.69	14.28	101.57	-383.04	1870.40	1909.24	1880.28	65.91	
6630.00	6630.00	6736.66	6734.25	14.76	14.35	101.60	-383.82	1870.40	1909.40	1880.30	65.61	
6660.00	6660.00	6766.65	6764.23	14.83	14.42	101.62	-384.61	1870.40	1909.56	1880.32	65.32	
6690.00	6690.00	6796.64	6794.21	14.90	14.48	101.64	-385.39	1870.40	1909.72	1880.35	65.02	
6720.00	6720.00	6826.63	6824.19	14.96	14.55	101.67	-386.18	1870.40	1909.88	1880.37	64.73	
6750.00	6750.00	6856.62	6854.17	15.03	14.62	101.69	-386.96	1870.40	1910.04	1880.40	64.44	
6780.00	6780.00	6886.61	6884.15	15.10	14.69	101.71	-387.75	1870.40	1910.20	1880.42	64.15	
6810.00	6810.00	6916.60	6914.13	15.17	14.75	101.73	-388.53	1870.40	1910.36	1880.45	63.87	
6840.00	6840.00	6946.58	6944.11	15.23	14.82	101.76	-389.32	1870.40	1910.52	1880.47	63.59	
6870.00	6870.00	6976.57	6974.08	15.30	14.89	101.78	-390.10	1870.40	1910.68	1880.50	63.31	
6900.00	6900.00	7006.56	7004.06	15.37	14.96	101.80	-390.89	1870.40	1910.84	1880.52	63.03	
6930.00	6930.00	7036.55	7034.04	15.44	15.02	101.83	-391.67	1870.40	1911.00	1880.55	62.76	
6960.00	6960.00	7066.64	7064.12	15.50	15.09	101.85	-392.46	1870.40	1911.16	1880.58	62.50	
6990.00	6990.00	7096.73	7094.20	15.57	15.15	101.87	-393.23	1870.40	1911.32	1880.61	62.24	
7020.00	7020.00	7126.83	7124.29	15.64	15.21	101.90	-394.00	1870.40	1911.47	1880.63	61.98	
7050.00	7050.00	7156.92	7154.37	15.71	15.28	101.92	-394.76	1870.40	1911.63	1880.66	61.72	
7080.00	7080.00	7187.02	7184.46	15.77	15.34	101.94	-395.51	1870.40	1911.79	1880.68	61.47	
7110.00	7110.00	7217.11	7214.55	15.84	15.40	101.96	-396.26	1870.40	1911.94	1880.71	61.21	
7140.00	7140.00	7247.21	7244.63	15.91	15.47	101.98	-397.00	1870.40	1912.09	1880.73	60.96	



Weatherford International Ltd.

Anticollision Report



Weatherford

Company: Occidental Permian Ltd.
Field: Eddy Co, NM (Nad 27)
Reference Site: Smokey Bits State 2H
Reference Well: Smokey Bits State 2H
Reference Wellpath: 1

Date: 4/11/2012

Time: 12:12:35

Page: 6

Co-ordinate(NE) Reference: Well: Smokey Bits State 2H, Grid North
Vertical (TVD) Reference: SITE 3453.7

Db: Sybase

Site: Exist Smokey St 1
Well: Exist Smokey St 1
Wellpath: 180 Azm V0

Inter-Site Error: 0.00 ft

Reference MD	Reference TVD	Offset MD	Offset TVD	Semi-Major Axis Ref	Semi-Major Axis Offset	TFO-HS	Offset Location North	Offset Location East	Ctr-Ctr Distance	Edge Distance	Separation Factor	Warning
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
7170.00	7170.00	7277.31	7274.72	15.98	15.53	102.00	-397.72	1870.40	1912.24	1880.75	60.72	
7200.00	7200.00	7307.40	7304.81	16.04	15.60	102.03	-398.44	1870.40	1912.39	1880.77	60.47	
7230.00	7230.00	7337.50	7334.90	16.11	15.66	102.05	-399.16	1870.40	1912.54	1880.78	60.22	
7260.00	7260.00	7367.60	7364.99	16.18	15.72	102.07	-399.86	1870.40	1912.69	1880.80	59.98	
7290.00	7290.00	7397.70	7395.08	16.24	15.79	102.09	-400.56	1870.40	1912.83	1880.81	59.74	
7320.00	7320.00	7427.80	7425.17	16.31	15.85	102.11	-401.25	1870.40	1912.98	1880.83	59.50	
7350.00	7350.00	7457.90	7455.26	16.38	15.91	102.13	-401.93	1870.40	1913.12	1880.84	59.27	
7380.00	7380.00	7487.99	7485.35	16.45	15.98	102.15	-402.60	1870.40	1913.26	1880.85	59.03	
7410.00	7410.00	7518.09	7515.44	16.51	16.04	102.17	-403.27	1870.40	1913.40	1880.86	58.80	
7440.00	7440.00	7548.25	7545.59	16.58	16.10	102.19	-403.92	1870.40	1913.54	1880.87	58.57	
7470.00	7470.00	7578.47	7575.80	16.65	16.16	102.21	-404.57	1870.40	1913.67	1880.88	58.35	
7500.00	7500.00	7608.68	7606.01	16.72	16.22	102.22	-405.19	1870.40	1913.80	1880.88	58.13	
7530.00	7530.00	7638.90	7636.23	16.78	16.28	102.24	-405.80	1870.40	1913.93	1880.88	57.91	
7560.00	7560.00	7669.12	7666.44	16.85	16.34	102.26	-406.39	1870.40	1914.06	1880.88	57.69	
7590.00	7590.00	7699.34	7696.65	16.92	16.40	102.28	-406.97	1870.40	1914.18	1880.87	57.48	
7620.00	7620.00	7729.56	7726.87	16.99	16.46	102.29	-407.53	1870.40	1914.30	1880.87	57.26	
7650.00	7650.00	7759.78	7757.09	17.05	16.52	102.31	-408.07	1870.40	1914.41	1880.85	57.05	
7680.00	7680.00	7790.01	7787.30	17.12	16.58	102.32	-408.60	1870.40	1914.52	1880.84	56.84	
7710.00	7710.00	7820.23	7817.52	17.19	16.64	102.34	-409.11	1870.40	1914.63	1880.82	56.63	
7740.00	7740.00	7850.45	7847.74	17.26	16.70	102.35	-409.60	1870.40	1914.74	1880.80	56.42	
7770.00	7770.00	7880.67	7877.96	17.32	16.75	102.37	-410.08	1870.40	1914.84	1880.77	56.21	
7800.00	7800.00	7910.90	7908.18	17.39	16.81	333.66	-410.53	1870.40	1914.84	1880.65	56.01	
7830.00	7829.98	7941.11	7938.39	17.44	16.87	333.62	-410.98	1870.40	1913.92	1879.64	55.83	
7860.00	7859.88	7971.26	7968.53	17.50	16.93	333.53	-411.40	1870.40	1911.86	1877.52	55.66	
7890.00	7889.65	8001.28	7998.56	17.55	16.99	333.38	-411.81	1870.40	1908.69	1874.30	55.50	
7920.00	7919.26	8030.77	8028.04	17.61	17.05	338.75	-412.20	1870.40	1904.37	1869.96	55.34	
7950.00	7948.68	8059.90	8057.17	17.67	17.11	344.81	-412.61	1870.40	1898.86	1864.46	55.20	
7980.00	7977.85	8088.81	8086.07	17.73	17.18	349.13	-413.04	1870.40	1892.15	1857.77	55.05	
8010.00	8006.74	8117.43	8114.69	17.79	17.24	352.36	-413.48	1870.40	1884.25	1849.92	54.90	
8040.00	8035.28	8145.71	8142.97	17.86	17.29	354.86	-413.95	1870.40	1875.17	1840.93	54.75	
8070.00	8063.44	8173.62	8170.87	17.93	17.35	356.89	-414.42	1870.40	1864.94	1830.79	54.62	
8100.00	8091.15	8201.09	8198.33	18.00	17.41	358.58	-414.91	1870.40	1853.57	1819.55	54.48	
8130.00	8118.37	8228.07	8225.32	18.08	17.47	0.04	-415.42	1870.40	1841.08	1807.20	54.35	
8160.00	8145.06	8254.53	8251.77	18.16	17.52	1.34	-415.93	1870.40	1827.49	1793.78	54.22	
8190.00	8171.16	8280.42	8277.65	18.25	17.58	2.52	-416.45	1870.40	1812.82	1779.31	54.10	
8220.00	8196.64	8305.68	8302.91	18.35	17.63	3.63	-416.97	1870.40	1797.11	1763.81	53.97	
8250.00	8221.43	8330.27	8327.50	18.44	17.68	4.69	-417.50	1870.40	1780.37	1747.31	53.85	
8280.00	8245.51	8354.16	8351.38	18.56	17.73	5.74	-418.02	1870.40	1762.64	1729.83	53.72	
8310.00	8268.83	8377.30	8374.51	18.68	17.78	6.79	-418.55	1870.40	1743.96	1711.41	53.58	
8340.00	8291.35	8399.64	8396.84	18.81	17.83	7.86	-419.07	1870.40	1724.35	1692.07	53.43	
8370.00	8313.03	8421.15	8418.35	18.96	17.87	8.98	-419.58	1870.40	1703.84	1671.85	53.25	
8400.00	8333.83	8441.79	8438.99	19.11	17.92	10.16	-420.08	1870.40	1682.49	1650.77	53.05	
8430.00	8353.72	8461.53	8458.72	19.29	17.96	11.42	-420.58	1870.40	1660.32	1628.87	52.79	
8460.00	8372.65	8480.33	8477.51	19.48	18.00	12.80	-421.06	1870.40	1637.37	1606.17	52.48	
8490.00	8390.60	8498.18	8495.36	19.69	18.04	14.32	-421.52	1870.40	1613.69	1582.70	52.08	
8520.00	8407.54	8515.28	8512.44	19.92	18.07	16.02	-421.96	1870.40	1589.32	1558.49	51.55	
8550.00	8423.43	8531.32	8528.48	20.16	18.11	17.92	-422.38	1870.40	1564.31	1533.56	50.88	
8580.00	8438.25	8546.27	8543.43	20.43	18.14	20.09	-422.76	1870.40	1538.69	1507.91	49.99	
8610.00	8451.98	8560.12	8557.28	20.71	18.17	22.58	-423.10	1870.40	1512.52	1481.55	48.84	
8640.00	8464.58	8572.84	8569.99	21.02	18.19	25.46	-423.42	1870.40	1485.85	1454.50	47.40	
8670.00	8476.03	8584.40	8581.55	21.35	18.22	28.82	-423.71	1870.40	1458.72	1426.75	45.62	



Weatherford International Ltd.

Anticollision Report



Weatherford

Company: Occidental Permian Ltd.
Field: Eddy Co, NM (Nad 27)
Reference Site: Smokey Bits State 2H
Reference Well: Smokey Bits State 2H
Reference Wellpath: 1

Date: 4/11/2012

Time: 12:12:35

Page: 7

Co-ordinate(NE) Reference: Well Smokey Bits State 2H, Grid North
Vertical (TVD) Reference: SITE 3453 7

Db: Sybase

Site: Exist Smokey St 1
Well: Exist Smokey St 1
Wellpath: 180 Azm V0

Inter-Site Error: 0 00 ft

Reference MD ft	TVD ft	Offset MD ft	TVD ft	Semi-Major Axis Ref ft	Offset ft	TFO-HS deg	Offset North ft	Offset East ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
8700.00	8486.32	8594.79	8591.93	21.69	18.24	32.74	-423.96	1870.40	1431.19	1398.31	43.53	
8730.00	8495.43	8603.98	8601.12	22.06	18.26	37.34	-424.18	1870.40	1403.31	1369.21	41.15	
8760.00	8503.34	8611.96	8609.10	22.44	18.28	42.73	-424.38	1870.40	1375.14	1339.51	38.60	
8790.00	8510.04	8618.73	8615.86	22.84	18.29	48.98	-424.54	1870.40	1346.72	1309.30	35.99	
8820.00	8515.51	8624.25	8621.39	23.26	18.30	56.10	-424.67	1870.40	1318.11	1278.74	33.48	
8850.00	8519.75	8628.53	8625.67	23.69	18.31	64.01	-424.77	1870.40	1289.37	1248.06	31.21	
8880.00	8522.75	8631.56	8628.70	24.14	18.32	72.46	-424.84	1870.40	1260.55	1217.50	29.28	
8910.00	8524.50	8633.34	8630.47	24.60	18.32	81.06	-424.89	1870.40	1231.70	1187.32	27.75	
8940.00	8525.00	8633.86	8630.99	25.07	18.32	88.60	-424.90	1870.40	1202.90	1157.67	26.59	
8970.00	8525.00	8633.86	8630.99	25.57	18.32	88.60	-424.90	1870.40	1174.15	1128.33	25.62	
9000.00	8525.00	8633.87	8631.00	26.06	18.32	88.60	-424.90	1870.40	1145.48	1099.05	24.68	
9030.00	8525.00	8633.88	8631.01	26.58	18.32	88.60	-424.90	1870.40	1116.87	1069.81	23.74	
9060.00	8525.00	8633.88	8631.01	27.11	18.32	88.60	-424.90	1870.40	1088.33	1040.64	22.82	
9090.00	8525.00	8633.89	8631.02	27.63	18.32	88.61	-424.90	1870.40	1059.88	1011.55	21.93	
9120.00	8525.00	8633.90	8631.03	28.18	18.32	88.61	-424.90	1870.40	1031.51	982.52	21.05	
9150.00	8525.00	8633.90	8631.04	28.74	18.32	88.61	-424.90	1870.40	1003.24	953.56	20.20	
9180.00	8525.00	8633.91	8631.04	29.29	18.32	88.61	-424.90	1870.40	975.07	924.71	19.36	
9210.00	8525.00	8633.92	8631.05	29.86	18.32	88.61	-424.90	1870.40	947.02	895.96	18.55	
9240.00	8525.00	8633.92	8631.06	30.44	18.32	88.61	-424.90	1870.40	919.09	867.30	17.75	
9270.00	8525.00	8633.93	8631.06	31.03	18.32	88.61	-424.90	1870.40	891.29	838.77	16.97	
9300.00	8525.00	8633.94	8631.07	31.61	18.32	88.61	-424.90	1870.40	863.64	810.39	16.22	
9330.00	8525.00	8633.94	8631.08	32.22	18.32	88.61	-424.90	1870.40	836.15	782.14	15.48	
9360.00	8525.00	8633.95	8631.08	32.83	18.32	88.62	-424.90	1870.40	808.84	754.05	14.76	
9390.00	8525.00	8633.96	8631.09	33.43	18.32	88.62	-424.90	1870.40	781.73	726.16	14.07	
9420.00	8525.00	8633.97	8631.10	34.05	18.32	88.62	-424.90	1870.40	754.83	698.47	13.39	
9450.00	8525.00	8633.97	8631.10	34.68	18.32	88.62	-424.90	1870.40	728.18	671.00	12.74	
9480.00	8525.00	8633.98	8631.11	35.30	18.32	88.62	-424.90	1870.40	701.80	643.80	12.10	
9510.00	8525.00	8633.99	8631.12	35.93	18.32	88.62	-424.90	1870.40	675.72	616.88	11.48	
9540.00	8525.00	8633.99	8631.12	36.57	18.32	88.62	-424.90	1870.40	649.98	590.27	10.89	
9570.00	8525.00	8634.00	8631.13	37.21	18.32	88.62	-424.90	1870.40	624.62	564.04	10.31	
9600.00	8525.00	8634.01	8631.14	37.85	18.32	88.63	-424.90	1870.40	599.69	538.22	9.76	
9630.00	8525.00	8634.01	8631.14	38.51	18.32	88.63	-424.90	1870.40	575.24	512.86	9.22	
9660.00	8525.00	8634.02	8631.15	39.16	18.32	88.63	-424.90	1870.40	551.34	488.04	8.71	
9690.00	8525.00	8634.03	8631.16	39.81	18.32	88.63	-424.90	1870.40	528.07	463.83	8.22	
9720.00	8525.00	8634.03	8631.17	40.47	18.32	88.63	-424.90	1870.40	505.50	440.30	7.75	
9750.00	8525.00	8634.04	8631.17	41.14	18.32	88.63	-424.90	1870.40	483.74	417.57	7.31	
9780.00	8525.00	8634.05	8631.18	41.80	18.32	88.63	-424.90	1870.40	462.90	395.75	6.89	
9810.00	8525.00	8634.05	8631.19	42.47	18.32	88.63	-424.90	1870.40	443.12	374.97	6.50	
9840.00	8525.00	8634.06	8631.19	43.14	18.32	88.63	-424.90	1870.40	424.54	355.39	6.14	
9870.00	8525.00	8634.07	8631.20	43.82	18.32	88.64	-424.90	1870.40	407.32	337.16	5.81	
9900.00	8525.00	8634.07	8631.21	44.49	18.32	88.64	-424.90	1870.40	391.64	320.49	5.50	
9930.00	8525.00	8634.08	8631.21	45.17	18.32	88.64	-424.90	1870.40	377.70	305.57	5.24	
9960.00	8525.00	8634.09	8631.22	45.85	18.32	88.64	-424.90	1870.40	365.70	292.61	5.00	
9990.00	8525.00	8634.09	8631.23	46.53	18.32	88.64	-424.90	1870.40	355.82	281.83	4.81	
10020.00	8525.00	8634.10	8631.23	47.22	18.32	88.64	-424.90	1870.40	348.26	273.40	4.65	
10050.00	8525.00	8634.11	8631.24	47.91	18.32	88.64	-424.91	1870.40	343.16	267.50	4.54	
10080.00	8525.00	8634.12	8631.25	48.60	18.32	88.64	-424.91	1870.40	340.64	264.25	4.46	
10110.00	8525.00	8634.12	8631.25	49.29	18.32	88.64	-424.91	1870.40	340.75	263.71	4.42	
10140.00	8525.00	8634.13	8631.26	49.98	18.32	88.65	-424.91	1870.40	343.49	265.87	4.43	
10170.00	8525.00	8634.14	8631.27	50.67	18.32	88.65	-424.91	1870.40	348.80	270.66	4.46	



Weatherford International Ltd.

Anticollision Report



Weatherford

Company: Occidental Permian Ltd.
Field: Eddy Co, NM (Nad 27)
Reference Site: Smokey Bits State 2H
Reference Well: Smokey Bits State 2H
Reference Wellpath: 1

Date: 4/11/2012

Time: 12:12:35

Page: 8

Co-ordinate(NE) Reference: Well. Smokey Bits State 2H, Grid North
Vertical (TVD) Reference: SITE 3453.7

Db: Sybase

Site: Exist Smokey St 1
Well: Exist Smokey St 1
Wellpath: 180 Azm V0

Inter-Site Error: 0.00 ft

Reference MD ft	TVD ft	Offset MD ft	TVD ft	Semi-Major Axis Ref ft	Offset ft	TFO-HS deg	Offset North ft	Location East ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
10200.00	8525.00	8634.14	8631.27	51.37	18.32	88.65	-424.91	1870.40	356.56	277.98	4.54	
10230.00	8525.00	8634.15	8631.28	52.07	18.32	88.65	-424.91	1870.40	366.63	287.63	4.64	
10260.00	8525.00	8634.16	8631.29	52.77	18.32	88.65	-424.91	1870.40	378.80	299.43	4.77	
10290.00	8525.00	8634.16	8631.30	53.47	18.32	88.65	-424.91	1870.40	392.89	313.17	4.93	
10320.00	8525.00	8634.17	8631.30	54.17	18.32	88.65	-424.91	1870.40	408.71	328.64	5.10	
10350.00	8525.00	8634.18	8631.31	54.87	18.32	88.65	-424.91	1870.40	426.05	345.65	5.30	
10380.00	8525.00	8634.18	8631.32	55.58	18.32	88.66	-424.91	1870.40	444.74	364.00	5.51	
10410.00	8525.00	8634.19	8631.32	56.28	18.32	88.66	-424.91	1870.40	464.62	383.52	5.73	
10440.00	8525.00	8634.20	8631.33	56.99	18.32	88.66	-424.91	1870.40	485.53	404.08	5.96	
10470.00	8525.00	8634.20	8631.34	57.70	18.32	88.66	-424.91	1870.40	507.37	425.53	6.20	
10500.00	8525.00	8634.21	8631.34	58.41	18.32	88.66	-424.91	1870.40	530.00	447.77	6.45	
10530.00	8525.00	8634.22	8631.35	59.12	18.32	88.66	-424.91	1870.40	553.33	470.69	6.70	
10560.00	8525.00	8634.22	8631.36	59.83	18.32	88.66	-424.91	1870.40	577.27	494.21	6.95	
10590.00	8525.00	8634.23	8631.36	60.54	18.32	88.66	-424.91	1870.40	601.77	518.26	7.21	
10620.00	8525.00	8634.24	8631.37	61.25	18.32	88.66	-424.91	1870.40	626.74	542.77	7.46	
10650.00	8525.00	8634.25	8631.38	61.97	18.32	88.67	-424.91	1870.40	652.13	567.69	7.72	
10680.00	8525.00	8634.25	8631.38	62.68	18.32	88.67	-424.91	1870.40	677.90	592.98	7.98	
10710.00	8525.00	8634.26	8631.39	63.40	18.32	88.67	-424.91	1870.40	704.01	618.59	8.24	
10740.00	8525.00	8634.27	8631.40	64.12	18.32	88.67	-424.91	1870.40	730.41	644.48	8.50	
10770.00	8525.00	8634.27	8631.40	64.83	18.32	88.67	-424.91	1870.40	757.08	670.63	8.76	
10800.00	8525.00	8634.28	8631.41	65.55	18.32	88.67	-424.91	1870.40	784.00	697.01	9.01	
10830.00	8525.00	8634.29	8631.42	66.27	18.32	88.67	-424.91	1870.40	811.13	723.60	9.27	
10860.00	8525.00	8634.29	8631.42	66.99	18.32	88.67	-424.91	1870.40	838.45	750.38	9.52	
10890.00	8525.00	8634.30	8631.43	67.71	18.32	88.67	-424.91	1870.40	865.96	777.32	9.77	
10920.00	8525.00	8634.31	8631.44	68.43	18.32	88.68	-424.91	1870.40	893.62	804.42	10.02	
10950.00	8525.00	8634.31	8631.45	69.15	18.32	88.68	-424.91	1870.40	921.43	831.65	10.26	
10980.00	8525.00	8634.32	8631.45	69.88	18.32	88.68	-424.91	1870.40	949.37	859.02	10.51	
11010.00	8525.00	8634.33	8631.46	70.60	18.32	88.68	-424.91	1870.40	977.44	886.49	10.75	
11040.00	8525.00	8634.33	8631.47	71.32	18.32	88.68	-424.91	1870.40	1005.61	914.08	10.99	
11070.00	8525.00	8634.34	8631.47	72.05	18.32	88.68	-424.91	1870.40	1033.89	941.76	11.22	
11100.00	8525.00	8634.35	8631.48	72.77	18.32	88.68	-424.91	1870.40	1062.27	969.53	11.45	
11130.00	8525.00	8634.35	8631.49	73.50	18.32	88.68	-424.91	1870.40	1090.73	997.38	11.68	
11160.00	8525.00	8634.36	8631.49	74.22	18.32	88.69	-424.91	1870.40	1119.27	1025.31	11.91	
11190.00	8525.00	8634.37	8631.50	74.95	18.32	88.69	-424.91	1870.40	1147.88	1053.31	12.14	
11220.00	8525.00	8634.37	8631.51	75.67	18.32	88.69	-424.91	1870.40	1176.57	1081.37	12.36	
11250.00	8525.00	8634.38	8631.51	76.40	18.32	88.69	-424.91	1870.40	1205.32	1109.50	12.58	
11280.00	8525.00	8634.39	8631.52	77.13	18.32	88.69	-424.91	1870.40	1234.12	1137.68	12.80	
11310.00	8525.00	8634.40	8631.53	77.86	18.32	88.69	-424.91	1870.40	1262.99	1165.91	13.01	
11340.00	8525.00	8634.40	8631.53	78.59	18.32	88.69	-424.91	1870.40	1291.90	1194.19	13.22	
11370.00	8525.00	8634.41	8631.54	79.32	18.32	88.69	-424.91	1870.40	1320.87	1222.52	13.43	
11400.00	8525.00	8634.42	8631.55	80.04	18.32	88.69	-424.91	1870.40	1349.88	1250.88	13.64	
11430.00	8525.00	8634.42	8631.55	80.77	18.32	88.70	-424.91	1870.40	1378.93	1279.29	13.84	
11460.00	8525.00	8634.43	8631.56	81.51	18.32	88.70	-424.91	1870.40	1408.02	1307.74	14.04	
11490.00	8525.00	8634.44	8631.57	82.24	18.32	88.70	-424.91	1870.40	1437.15	1336.22	14.24	
11520.00	8525.00	8634.44	8631.57	82.97	18.32	88.70	-424.91	1870.40	1466.31	1364.73	14.44	
11550.00	8525.00	8634.45	8631.58	83.70	18.32	88.70	-424.91	1870.40	1495.51	1393.28	14.63	
11580.00	8525.00	8634.46	8631.59	84.43	18.32	88.70	-424.91	1870.40	1524.74	1421.85	14.82	
11610.00	8525.00	8634.46	8631.60	85.16	18.32	88.70	-424.91	1870.40	1553.99	1450.45	15.01	
11640.00	8525.00	8634.47	8631.60	85.89	18.32	88.70	-424.91	1870.40	1583.28	1479.08	15.19	
11670.00	8525.00	8634.48	8631.61	86.63	18.32	88.70	-424.91	1870.40	1612.59	1507.67	15.37	
11700.00	8525.00	8634.48	8631.62	87.36	18.32	88.71	-424.91	1870.40	1641.93	1536.27	15.54	



Weatherford International Ltd.

Anticollision Report



Weatherford

Company: Occidental Permian Ltd.
Field: Eddy Co, NM (Nad 27)
Reference Site: Smokey Bits State 2H
Reference Well: Smokey Bits State 2H
Reference Wellpath: 1

Date: 4/11/2012

Time: 12.12:35

Page: 9

Co-ordinate(NE) Reference: Well: Smokey Bits State 2H, Grnd North
Vertical (TVD) Reference: SITE 3453 7

Db: Sybase

Site: Exist Smokey St 1
Well: Exist Smokey St 1
Wellpath: 180 Azm V0

Inter-Site Error: 0.00 ft

Reference MD ft	TVD ft	Offset MD ft	Offset TVD ft	Semi-Major Axis Ref ft	Offset ft	TFO-HS deg	Offset North ft	Offset East ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
11730.00	8525.00	8634.49	8631.62	88.09	18.32	88.71	-424.91	1870.40	1671.29	1564.90	15.71	
11760.00	8525.00	8634.50	8631.63	88.83	18.32	88.71	-424.91	1870.40	1700.67	1593.55	15.88	
11790.00	8525.00	8634.50	8631.64	89.56	18.32	88.71	-424.91	1870.40	1730.07	1622.22	16.04	
11820.00	8525.00	8634.51	8631.64	90.30	18.32	88.71	-424.91	1870.40	1759.49	1650.91	16.20	
11850.00	8525.00	8634.52	8631.65	91.03	18.32	88.71	-424.91	1870.40	1788.94	1679.61	16.36	
11880.00	8525.00	8634.53	8631.66	91.77	18.32	88.71	-424.91	1870.40	1818.40	1708.34	16.52	
11910.00	8525.00	8634.53	8631.66	92.50	18.33	88.71	-424.92	1870.40	1847.88	1737.08	16.68	
11940.00	8525.00	8634.54	8631.67	93.24	18.33	88.71	-424.92	1870.40	1877.37	1765.84	16.83	
11970.00	8525.00	8634.55	8631.68	93.97	18.33	88.72	-424.92	1870.40	1906.88	1794.62	16.99	
12000.00	8525.00	8634.55	8631.68	94.71	18.33	88.72	-424.92	1870.40	1936.41	1823.41	17.14	
12030.00	8525.00	8634.56	8631.69	95.44	18.33	88.72	-424.92	1870.40	1965.95	1852.21	17.28	
12060.00	8525.00	8634.57	8631.70	96.18	18.33	88.72	-424.92	1870.40	1995.50	1881.03	17.43	
12090.00	8525.00	8634.57	8631.70	96.92	18.33	88.72	-424.92	1870.40	2025.07	1909.86	17.58	
12120.00	8525.00	8634.58	8631.71	97.65	18.33	88.72	-424.92	1870.40	2054.65	1938.70	17.72	
12150.00	8525.00	8634.59	8631.72	98.39	18.33	88.72	-424.92	1870.40	2084.24	1967.55	17.86	
12180.00	8525.00	8634.59	8631.73	99.13	18.33	88.72	-424.92	1870.40	2113.84	1996.42	18.00	
12210.00	8525.00	8634.60	8631.73	99.87	18.33	88.73	-424.92	1870.40	2143.46	2025.30	18.14	
12240.00	8525.00	8634.61	8631.74	100.60	18.33	88.73	-424.92	1870.40	2173.08	2054.18	18.28	
12270.00	8525.00	8634.61	8631.75	101.34	18.33	88.73	-424.92	1870.40	2202.72	2083.08	18.41	
12300.00	8525.00	8634.62	8631.75	102.08	18.33	88.73	-424.92	1870.40	2232.36	2111.99	18.55	
12330.00	8525.00	8634.63	8631.76	102.82	18.33	88.73	-424.92	1870.40	2262.01	2140.90	18.68	
12360.00	8525.00	8634.63	8631.77	103.56	18.33	88.73	-424.92	1870.40	2291.68	2169.83	18.81	
12390.00	8525.00	8634.64	8631.77	104.30	18.33	88.73	-424.92	1870.40	2321.35	2198.76	18.94	
12420.00	8525.00	8634.65	8631.78	105.03	18.33	88.73	-424.92	1870.40	2351.03	2227.70	19.06	
12450.00	8525.00	8634.65	8631.79	105.77	18.33	88.73	-424.92	1870.40	2380.72	2256.65	19.19	
12480.00	8525.00	8634.66	8631.79	106.51	18.33	88.74	-424.92	1870.40	2410.41	2285.61	19.31	
12510.00	8525.00	8634.67	8631.80	107.25	18.33	88.74	-424.92	1870.40	2440.12	2314.57	19.44	
12540.00	8525.00	8634.68	8631.81	107.99	18.33	88.74	-424.92	1870.40	2469.83	2343.54	19.56	
12570.00	8525.00	8634.68	8631.81	108.73	18.33	88.74	-424.92	1870.40	2499.54	2372.52	19.68	
12600.00	8525.00	8634.69	8631.82	109.47	18.33	88.74	-424.92	1870.40	2529.27	2401.50	19.80	
12630.00	8525.00	8634.70	8631.83	110.21	18.33	88.74	-424.92	1870.40	2559.00	2430.49	19.91	
12660.00	8525.00	8634.70	8631.83	110.95	18.33	88.74	-424.92	1870.40	2588.73	2459.49	20.03	
12690.00	8525.00	8634.71	8631.84	111.69	18.33	88.74	-424.92	1870.40	2618.48	2488.49	20.14	
12720.00	8525.00	8634.72	8631.85	112.43	18.33	88.74	-424.92	1870.40	2648.22	2517.50	20.26	
12750.00	8525.00	8634.72	8631.85	113.17	18.33	88.75	-424.92	1870.40	2677.98	2546.51	20.37	
12780.00	8525.00	8634.73	8631.86	113.91	18.33	88.75	-424.92	1870.40	2707.74	2575.53	20.48	
12810.00	8525.00	8634.74	8631.87	114.66	18.33	88.75	-424.92	1870.40	2737.50	2604.55	20.59	
12840.00	8525.00	8634.74	8631.88	115.40	18.33	88.75	-424.92	1870.40	2767.27	2633.58	20.70	
12870.00	8525.00	8634.75	8631.88	116.14	18.33	88.75	-424.92	1870.40	2797.05	2662.61	20.81	
12900.00	8525.00	8634.76	8631.89	116.88	18.33	88.75	-424.92	1870.40	2826.83	2691.65	20.91	
12930.00	8525.00	8634.76	8631.90	117.62	18.33	88.75	-424.92	1870.40	2856.61	2720.69	21.02	
12960.00	8525.00	8634.77	8631.90	118.36	18.33	88.75	-424.92	1870.40	2886.40	2749.74	21.12	
12990.00	8525.00	8634.78	8631.91	119.10	18.33	88.76	-424.92	1870.40	2916.19	2778.79	21.22	
13020.00	8525.00	8634.78	8631.92	119.85	18.33	88.76	-424.92	1870.40	2945.99	2807.85	21.33	
13050.00	8525.00	8634.79	8631.92	120.59	18.33	88.76	-424.92	1870.40	2975.79	2836.91	21.43	
13080.00	8525.00	8634.80	8631.93	121.33	18.33	88.76	-424.92	1870.40	3005.59	2865.97	21.53	
13094.41	8525.00	8634.80	8631.93	121.69	18.33	88.76	-424.92	1870.40	3019.91	2879.93	21.57	

**Weatherford®****Weatherford Drilling Services**

GeoDec v5.03

Report Date: January 16, 2012
Job Number: _____
Customer: Oxy
Well Name: Smokey Bits State 2H
API Number: _____
Rig Name: _____
Location: Eddy Co., NM
Block: _____
Engineer: KRN

Geodetic Latitude / Longitude	US State Plane 1927
System: Latitude / Longitude	System: New Mexico East 3001 (NON-EXACT)
Projection: Geodetic Latitude and Longitude	Projection: SPC27 Transverse Mercator
Datum: NAD 1927 (NADCON CONUS)	Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866	Ellipsoid: Clarke 1866
Latitude 32.7067106 DEG	North/South 621044.400 USFT
Longitude -103.9333178 DEG	East/West 623042.600 USFT
	Grid Convergence: .22°
	Total Correction: +7.46°

Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude =	32.70671° N	32° 42 min 24.158 sec
Longitude =	103.93332° W	103° 55 min 59.944 sec

Magnetic Declination =	7.68°	[True North Offset]
Local Gravity =	.9989 g	Checksum = 6633
Local Field Strength =	48801 nT	Magnetic Vector X = 23779 nT
Magnetic Dip =	60.55°	Magnetic Vector Y = 3208 nT
Magnetic Model =	IGRF-2010g11	Magnetic Vector Z = 42495 nT
Spud Date =	May 01, 2012	Magnetic Vector H = 23994 nT

Signed: _____

Date: _____