



Well Name:		LUCKY WOLF 30 FED COM 1H							
Survey:		FINAL SURVEY							
Survey Date:		7/15/2009							
MD	Inc	Azim	TVD	VS	Northing	Easting	DLS	Closure Distance	Closure Angle
ft	deg	deg	ft	ft	ft	ft	deg/100ft	ft	deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	Invalid	0.00	0.00
100.00	0.30	286.06	100.00	-0.25	0.07	-0.25	0.30	0.26	286.06
200.00	0.26	355.19	200.00	-0.51	0.37	-0.52	0.32	0.64	305.34
300.00	0.15	315.23	300.00	-0.61	0.69	-0.63	0.17	0.94	317.40
400.00	0.14	323.26	400.00	-0.77	0.88	-0.80	0.03	1.19	317.74
500.00	0.31	329.65	500.00	-0.96	1.21	-1.01	0.17	1.57	320.18
600.00	0.40	314.09	599.99	-1.34	1.68	-1.39	0.13	2.18	320.37
700.00	0.37	336.24	699.99	-1.70	2.22	-1.77	0.15	2.84	321.39
800.00	0.51	343.89	799.99	-1.93	2.94	-2.03	0.15	3.57	325.45
900.00	0.39	327.70	899.99	-2.21	3.65	-2.33	0.17	4.33	327.47
1000.00	0.40	317.27	999.98	-2.61	4.19	-2.75	0.07	5.01	326.78
1100.00	0.36	331.11	1099.98	-2.98	4.72	-3.14	0.10	5.67	326.43
1200.00	0.31	318.55	1199.98	-3.29	5.20	-3.46	0.09	6.25	326.33
1300.00	0.35	324.97	1299.98	-3.63	5.65	-3.82	0.06	6.82	325.96
1400.00	0.47	303.08	1399.98	-4.13	6.13	-4.34	0.20	7.51	324.70
1500.00	0.62	294.70	1499.97	-4.95	6.58	-5.18	0.17	8.37	321.80
1600.00	0.71	290.94	1599.97	-6.01	7.03	-6.25	0.10	9.40	318.35
1700.00	0.65	300.78	1699.96	-7.07	7.54	-7.32	0.13	10.51	315.85
1800.00	0.71	306.41	1799.95	-8.04	8.20	-8.31	0.09	11.68	314.62
1900.00	0.89	301.73	1899.94	-9.17	8.98	-9.48	0.19	13.06	313.47
2000.00	0.99	300.28	1999.93	-10.56	9.83	-10.89	0.10	14.67	312.07
2100.00	0.95	301.51	2099.91	-11.98	10.70	-12.34	0.05	16.33	310.92
2200.00	1.04	300.07	2199.90	-13.44	11.59	-13.83	0.10	18.04	309.95
2300.00	1.06	298.88	2299.88	-15.00	12.49	-15.43	0.03	19.85	308.99
2400.00	1.02	300.36	2399.86	-16.55	13.38	-17.00	0.05	21.64	308.20
2500.00	1.11	296.94	2499.85	-18.15	14.27	-18.63	0.11	23.47	307.45
2600.00	1.05	291.61	2599.83	-19.84	15.05	-20.35	0.11	25.31	306.48
2700.00	0.98	285.97	2699.81	-21.50	15.62	-22.03	0.12	27.01	305.34
2800.00	0.98	289.60	2799.80	-23.12	16.15	-23.67	0.06	28.65	304.30
2900.00	1.11	282.14	2899.78	-24.85	16.64	-25.42	0.18	30.38	303.21
3000.00	1.19	278.41	2999.76	-26.81	16.99	-27.39	0.11	32.23	301.81
3100.00	1.24	276.65	3099.74	-28.90	17.27	-29.49	0.06	34.18	300.35
3200.00	1.22	277.77	3199.72	-31.02	17.54	-31.62	0.03	36.16	299.02
3300.00	1.31	282.82	3299.69	-33.18	17.94	-33.79	0.14	38.26	297.96
3400.00	1.19	285.29	3399.67	-35.28	18.46	-35.91	0.13	40.38	297.21
3500.00	1.09	288.35	3499.65	-37.17	19.04	-37.82	0.11	42.34	296.72
3600.00	1.04	288.89	3599.63	-38.91	19.63	-39.58	0.06	44.18	296.38
3700.00	0.97	291.95	3699.62	-40.53	20.24	-41.22	0.09	45.92	296.15
3800.00	0.87	304.99	3799.60	-41.91	20.99	-42.63	0.23	47.52	296.22



Survey Report

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MD ft	Inc deg	Azim deg	TVD ft	VS ft	Northing ft	Easting ft	DLS deg/100ft	Closure Distance ft	Closure Angle deg
3900.00	0.59	15.12	3899.60	-42.36	21.93	-43.12	0.87	48.37	296.96
4000.00	0.50	4.71	3999.59	-42.16	22.86	-42.94	0.14	48.65	298.03
4100.00	0.42	16.71	4099.59	-42.00	23.65	-42.80	0.12	48.90	298.92
4200.00	0.31	19.17	4199.59	-41.78	24.26	-42.61	0.11	49.03	299.66
4300.00	0.33	23.44	4299.59	-41.56	24.78	-42.41	0.03	49.11	300.30
4400.00	0.20	22.22	4399.58	-41.37	25.20	-42.23	0.12	49.17	300.83
4500.00	0.23	332.30	4499.58	-41.38	25.55	-42.25	0.19	49.38	301.16
4600.00	0.47	21.32	4599.58	-41.31	26.11	-42.20	0.36	49.62	301.75
4700.00	0.56	23.42	4699.58	-40.94	26.93	-41.86	0.09	49.78	302.76
4800.00	0.55	16.35	4799.57	-40.58	27.84	-41.53	0.07	50.00	303.84
4900.00	0.50	17.35	4899.57	-40.29	28.71	-41.27	0.05	50.27	304.83
5000.00	0.37	28.33	4999.57	-39.98	29.42	-40.98	0.15	50.45	305.67
5100.00	0.38	55.94	5099.56	-39.54	29.89	-40.55	0.18	50.38	306.39
5200.00	0.52	65.85	5199.56	-38.84	30.26	-39.86	0.17	50.05	307.20
5300.00	0.58	66.95	5299.56	-37.94	30.65	-38.98	0.06	49.58	308.18
5400.00	0.69	68.57	5399.55	-36.90	31.07	-37.95	0.11	49.04	309.31
5486.00	0.56	62.59	5485.54	-36.03	31.45	-37.09	0.17	48.63	310.29