



Gyroscopic Survey Report
for
K.P. KAUFFMAN
1675 BROADWAY SUITE 2800
DENVER, CO 80202

Well Location	WELD COUNTY, CO
Well Name	PREMIUM TURKEY FARMS B#2
Rig Number	FMC 324
Survey Date	6/23/2014
Latitude	40.1279910°N
Longitude	104.8745360°W
North Reference	True North
Grid Correction	None
Depth Reference	GROUND LEVEL (5017.00 ft)
Calculation Method	Minimum Curvature
Section (VS) Ref	0.00N (ft), 0.00E (ft), 300.82Azim (deg)
Definitive Survey	PREMIUM TURKEY FARMS B#2
Operator(s)	C JAQUES

Well Notes

Survey Report

Well Name: PREMIUM TURKEY FARMS B#2
Survey: PREMIUM TURKEY FARMS B#2
Survey Date: 6/23/2014

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS 7100ft	Closure Distance ft	Closure Direction deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	Invalid	0.00	0.00
100.30	0.32	140.49	100.30	-0.26	-0.22	0.18	0.32	0.28	140.49
125.32	0.28	139.57	125.32	-0.39	-0.32	0.26	0.17	0.41	140.35
150.61	0.14	201.64	150.60	-0.45	-0.39	0.29	0.97	0.49	143.52
175.24	0.28	137.08	175.24	-0.51	-0.46	0.32	1.02	0.56	145.50
200.25	0.17	158.74	200.25	-0.60	-0.54	0.37	0.54	0.66	145.46
225.70	0.13	184.16	225.70	-0.64	-0.61	0.39	0.29	0.72	147.62
250.47	0.18	139.36	250.47	-0.69	-0.67	0.41	0.51	0.78	148.48
275.96	0.12	208.58	275.96	-0.73	-0.72	0.42	0.69	0.83	149.66
300.94	0.11	222.61	300.94	-0.73	-0.76	0.39	0.12	0.86	152.74
325.23	0.24	128.13	325.22	-0.77	-0.81	0.42	1.12	0.91	152.80
350.71	0.17	186.23	350.71	-0.84	-0.88	0.45	0.82	0.99	152.73
375.54	0.36	160.75	375.53	-0.92	-0.99	0.48	0.89	1.10	154.36
400.45	0.43	152.43	400.45	-1.06	-1.15	0.54	0.34	1.27	154.62
425.27	0.39	151.16	425.27	-1.21	-1.30	0.63	0.15	1.45	154.28
451.10	0.32	178.74	451.10	-1.32	-1.45	0.67	0.71	1.60	155.17
476.01	0.30	182.94	476.01	-1.39	-1.59	0.67	0.11	1.72	157.10
501.12	0.33	174.73	501.11	-1.46	-1.72	0.67	0.21	1.85	158.66
526.15	0.32	171.63	526.15	-1.55	-1.86	0.69	0.07	1.99	159.68
550.81	0.37	166.90	550.81	-1.65	-2.01	0.72	0.25	2.13	160.34
575.93	0.32	164.55	575.92	-1.75	-2.16	0.76	0.24	2.29	160.70
601.05	0.34	156.65	601.04	-1.86	-2.29	0.80	0.21	2.43	160.69
625.82	0.37	171.94	625.81	-1.97	-2.44	0.84	0.39	2.58	160.91
650.60	0.37	170.63	650.59	-2.07	-2.59	0.87	0.04	2.74	161.51
675.88	0.36	164.89	675.87	-2.18	-2.75	0.90	0.15	2.90	161.86
700.62	0.35	169.52	700.61	-2.29	-2.90	0.94	0.12	3.05	162.12
725.22	0.35	161.58	725.21	-2.40	-3.05	0.97	0.20	3.20	162.29
750.61	0.41	165.93	750.60	-2.52	-3.21	1.02	0.27	3.36	162.37
776.15	0.22	278.87	776.14	-2.54	-3.29	0.99	2.10	3.43	163.20
800.65	0.30	270.78	800.64	-2.44	-3.28	0.88	0.36	3.40	164.96
825.30	0.35	279.60	825.29	-2.31	-3.27	0.74	0.29	3.35	167.20
850.18	0.36	282.76	850.17	-2.16	-3.24	0.59	0.09	3.29	169.67
876.15	0.26	273.31	876.14	-2.03	-3.21	0.45	0.44	3.25	172.00
901.54	0.07	194.17	901.53	-1.99	-3.23	0.39	1.00	3.25	173.09
925.35	0.45	269.83	925.34	-1.91	-3.24	0.29	1.83	3.25	174.81
950.07	0.30	275.38	950.06	-1.77	-3.24	0.13	0.60	3.24	177.65

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MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS 7100ft	Closure Distance ft	Closure Direction deg
975.27	0.30	260.38	975.26	-1.66	-3.24	0.00	0.31	3.24	179.99
1000.63	0.24	261.32	1000.62	-1.57	-3.26	-0.12	0.25	3.26	182.07
1026.20	0.28	269.57	1026.19	-1.47	-3.27	-0.23	0.21	3.28	184.06
1051.06	0.26	268.64	1051.05	-1.38	-3.27	-0.35	0.08	3.29	186.08
1075.14	0.26	272.54	1075.13	-1.28	-3.27	-0.46	0.08	3.30	187.97
1100.41	0.30	265.13	1100.40	-1.18	-3.27	-0.58	0.21	3.32	190.09
1126.26	0.37	274.02	1126.24	-1.05	-3.27	-0.73	0.34	3.35	192.65
1150.33	0.28	275.87	1150.31	-0.92	-3.26	-0.87	0.38	3.37	194.97
1176.20	0.39	291.63	1176.18	-0.78	-3.22	-1.02	0.55	3.38	197.53
1200.63	0.43	272.26	1200.61	-0.61	-3.19	-1.19	0.59	3.40	200.42
1226.06	0.34	303.21	1226.05	-0.45	-3.14	-1.35	0.88	3.42	203.18
1250.22	0.42	305.00	1250.20	-0.29	-3.05	-1.48	0.33	3.39	205.83
1275.11	0.28	293.60	1275.09	-0.14	-2.98	-1.61	0.64	3.38	208.37
1300.03	0.27	291.65	1300.01	-0.03	-2.93	-1.72	0.04	3.40	210.36
1325.57	0.34	291.58	1325.55	0.11	-2.88	-1.84	0.28	3.42	212.63
1350.44	0.39	290.14	1350.42	0.26	-2.82	-1.99	0.18	3.45	215.20
1375.18	0.34	291.69	1375.16	0.42	-2.77	-2.14	0.20	3.50	217.69
1401.21	0.38	292.69	1401.19	0.58	-2.71	-2.29	0.18	3.54	220.25
1426.05	0.45	286.92	1426.03	0.76	-2.64	-2.46	0.32	3.61	222.94
1450.33	0.39	292.13	1450.31	0.93	-2.59	-2.63	0.29	3.69	225.49
1476.17	0.38	287.76	1476.15	1.11	-2.53	-2.79	0.12	3.77	227.90
1500.62	0.46	287.67	1500.60	1.28	-2.47	-2.97	0.30	3.86	230.20
1526.37	0.40	289.68	1526.35	1.47	-2.41	-3.15	0.21	3.96	232.58
1550.52	0.36	286.98	1550.50	1.63	-2.36	-3.30	0.18	4.06	234.47
1575.09	0.36	290.31	1575.06	1.78	-2.31	-3.45	0.09	4.15	236.22
1600.94	0.32	286.31	1600.92	1.93	-2.26	-3.60	0.20	4.25	237.86
1625.45	0.35	290.70	1625.43	2.07	-2.21	-3.73	0.18	4.34	239.32
1650.94	0.45	290.07	1650.91	2.25	-2.15	-3.90	0.38	4.45	241.12
1675.47	0.40	292.37	1675.45	2.43	-2.09	-4.07	0.24	4.57	242.86
1700.07	0.44	287.18	1700.04	2.60	-2.03	-4.24	0.23	4.70	244.45
1726.01	0.55	289.62	1725.99	2.82	-1.95	-4.45	0.43	4.86	246.28
1751.11	0.56	284.25	1751.08	3.05	-1.88	-4.68	0.21	5.05	248.07
1775.73	0.50	285.94	1775.70	3.27	-1.83	-4.90	0.25	5.23	249.57
1800.41	0.35	286.20	1800.38	3.45	-1.77	-5.08	0.61	5.38	250.73
1826.42	0.44	294.86	1826.39	3.63	-1.71	-5.24	0.43	5.52	251.94
1850.59	0.47	297.29	1850.56	3.82	-1.63	-5.42	0.12	5.66	253.30

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MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS 7100ft	Closure Distance ft	Closure Direction deg
1875.29	0.58	291.20	1875.26	4.04	-1.53	-5.62	0.50	5.83	254.74
1900.08	0.46	296.04	1900.05	4.26	-1.45	-5.83	0.52	6.00	256.07
1926.07	0.46	290.18	1926.03	4.47	-1.36	-6.02	0.18	6.17	257.22
1950.34	0.45	300.46	1950.30	4.66	-1.28	-6.19	0.34	6.32	258.29
1975.17	0.42	304.96	1975.14	4.85	-1.18	-6.35	0.18	6.46	259.47
2001.23	0.40	301.49	2001.20	5.03	-1.08	-6.51	0.14	6.59	260.59
2026.12	0.38	303.47	2026.08	5.20	-0.99	-6.65	0.07	6.72	261.55
2050.43	0.34	305.61	2050.39	5.36	-0.90	-6.77	0.20	6.83	262.43
2075.64	0.36	334.36	2075.61	5.50	-0.79	-6.87	0.69	6.91	263.47
2100.54	0.33	337.89	2100.51	5.62	-0.65	-6.93	0.13	6.96	264.64
2125.31	0.28	327.15	2125.27	5.73	-0.53	-6.99	0.31	7.01	265.65
2151.40	0.34	332.21	2151.36	5.85	-0.41	-7.06	0.25	7.07	266.68
2176.32	0.41	311.01	2176.28	6.00	-0.29	-7.16	0.61	7.17	267.71
2200.70	0.35	319.48	2200.66	6.16	-0.17	-7.28	0.32	7.28	268.64
2225.55	0.41	324.28	2225.51	6.31	-0.04	-7.38	0.28	7.38	269.68
2251.38	0.36	338.09	2251.34	6.47	0.11	-7.46	0.41	7.46	270.84
2275.49	0.45	332.13	2275.45	6.61	0.26	-7.54	0.40	7.54	272.01
2300.09	0.46	352.95	2300.05	6.75	0.45	-7.59	0.67	7.61	273.38
2325.86	0.45	353.07	2325.82	6.88	0.65	-7.62	0.05	7.65	274.87
2350.40	0.42	339.08	2350.35	7.00	0.83	-7.66	0.44	7.71	276.16
2375.76	0.51	9.39	2375.71	7.12	1.02	-7.68	1.01	7.74	277.60
2400.31	0.38	351.64	2400.26	7.21	1.21	-7.67	0.75	7.77	278.98
2426.08	0.52	3.34	2426.03	7.32	1.42	-7.68	0.65	7.81	280.45
2450.54	0.50	354.05	2450.49	7.43	1.63	-7.68	0.35	7.85	282.00
2476.37	0.56	4.99	2476.32	7.55	1.87	-7.68	0.45	7.91	283.68
2500.43	0.63	339.10	2500.38	7.71	2.11	-7.72	1.14	8.00	285.29
2525.07	0.46	6.94	2525.02	7.86	2.34	-7.75	1.25	8.10	286.76
2550.89	0.78	348.06	2550.84	8.02	2.61	-7.78	1.45	8.21	288.56
2575.45	0.62	355.20	2575.40	8.21	2.91	-7.82	0.75	8.35	290.39
2600.87	0.50	349.92	2600.81	8.36	3.15	-7.85	0.53	8.46	291.88
2625.47	0.76	346.38	2625.41	8.55	3.42	-7.91	1.07	8.62	293.36
2650.14	0.76	354.87	2650.08	8.76	3.74	-7.96	0.46	8.80	295.15
2675.91	0.87	334.91	2675.85	9.02	4.09	-8.06	1.17	9.04	296.88
2700.09	0.78	350.52	2700.03	9.28	4.42	-8.17	1.00	9.29	298.40
2725.92	0.60	356.53	2725.86	9.47	4.72	-8.21	0.73	9.47	299.93
2750.51	1.13	334.23	2750.44	9.74	5.07	-8.32	2.51	9.74	301.38

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2775.12	1.04	335.85	2775.05	10.13	5.50	-8.52	0.38	10.14	302.84
2800.96	0.86	334.49	2800.89	10.48	5.89	-8.70	0.71	10.50	304.10
2826.02	0.79	336.31	2825.94	10.78	6.22	-8.85	0.29	10.81	305.09
2851.11	0.89	339.60	2851.02	11.08	6.56	-8.99	0.44	11.12	306.13
2875.77	0.87	338.62	2875.69	11.37	6.91	-9.12	0.11	11.44	307.16
2900.43	0.95	339.72	2900.34	11.68	7.28	-9.26	0.34	11.78	308.17
2925.86	0.90	346.65	2925.77	11.99	7.67	-9.38	0.49	12.12	309.29
2951.04	0.88	342.58	2950.94	12.27	8.05	-9.48	0.26	12.44	310.33
2975.39	0.89	339.94	2975.30	12.55	8.41	-9.60	0.18	12.76	311.19
3000.10	0.85	347.80	3000.00	12.83	8.77	-9.71	0.51	13.08	312.08
3025.60	0.98	337.50	3025.50	13.13	9.15	-9.83	0.80	13.43	312.95
3050.48	0.90	349.09	3050.37	13.43	9.54	-9.95	0.82	13.78	313.80
3075.16	0.87	342.37	3075.05	13.70	9.91	-10.04	0.44	14.11	314.62
3101.16	0.87	340.01	3101.05	14.00	10.28	-10.17	0.14	14.46	315.31
3125.08	0.88	338.60	3124.97	14.29	10.62	-10.30	0.10	14.80	315.89
3151.18	0.86	340.05	3151.06	14.60	10.99	-10.44	0.11	15.16	316.48
3175.15	0.90	339.29	3175.03	14.89	11.34	-10.57	0.17	15.50	317.02
3201.09	0.84	331.75	3200.96	15.21	11.70	-10.73	0.50	15.87	317.47
3225.09	0.80	328.18	3224.96	15.51	12.00	-10.90	0.27	16.21	317.74
3250.73	1.04	321.29	3250.60	15.88	12.33	-11.14	1.01	16.62	317.90
3275.25	0.96	328.00	3275.12	16.27	12.68	-11.39	0.58	17.04	318.06
3300.53	0.78	328.22	3300.39	16.61	13.00	-11.59	0.69	17.42	318.28
3325.81	0.94	316.82	3325.67	16.97	13.30	-11.82	0.93	17.79	318.36
3350.19	0.91	332.05	3350.04	17.33	13.62	-12.05	1.02	18.18	318.49
3375.86	0.72	322.90	3375.71	17.65	13.93	-12.25	0.90	18.55	318.68
3400.39	0.75	320.98	3400.24	17.95	14.18	-12.44	0.15	18.86	318.73
3426.10	0.82	327.93	3425.95	18.27	14.46	-12.64	0.46	19.21	318.84
3450.19	0.63	336.49	3450.03	18.53	14.73	-12.79	0.90	19.51	319.04
3475.08	0.57	340.50	3474.92	18.74	14.97	-12.88	0.28	19.75	319.29
3500.75	0.60	349.13	3500.60	18.92	15.23	-12.95	0.36	19.99	319.61
3525.33	0.59	349.79	3525.18	19.09	15.48	-13.00	0.05	20.21	319.98
3551.06	0.58	349.17	3550.90	19.27	15.74	-13.05	0.07	20.44	320.34
3575.11	0.59	2.50	3574.95	19.41	15.98	-13.06	0.56	20.64	320.73
3600.92	0.36	336.58	3600.76	19.54	16.19	-13.09	1.19	20.82	321.03
3625.81	0.67	313.26	3625.65	19.74	16.36	-13.23	1.46	21.04	321.04
3651.15	0.43	274.96	3650.99	19.97	16.47	-13.43	1.67	21.25	320.80

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3675.02	1.03	305.68	3674.85	20.27	16.60	-13.70	2.92	21.52	320.48
3700.18	0.65	289.83	3700.02	20.64	16.78	-14.02	1.76	21.87	320.13
3726.19	0.65	289.30	3726.03	20.93	16.88	-14.30	0.03	22.12	319.74
3750.30	1.24	287.87	3750.13	21.31	17.01	-14.67	2.46	22.46	319.21
3775.75	1.02	289.77	3775.57	21.81	17.17	-15.15	0.87	22.90	318.57
3800.28	1.07	288.81	3800.10	22.25	17.32	-15.57	0.20	23.29	318.03
3825.02	1.02	279.43	3824.84	22.68	17.43	-16.01	0.72	23.66	317.43
3850.58	0.98	294.23	3850.39	23.10	17.55	-16.43	1.02	24.04	316.89
3875.31	1.06	287.66	3875.12	23.54	17.71	-16.84	0.56	24.44	316.44
3900.68	0.94	280.43	3900.48	23.96	17.82	-17.27	0.69	24.81	315.90
3926.80	0.95	281.30	3926.60	24.36	17.90	-17.69	0.07	25.17	315.34
3950.75	0.95	278.61	3950.54	24.73	17.97	-18.08	0.19	25.49	314.82
3975.28	0.90	288.78	3975.07	25.11	18.06	-18.46	0.70	25.83	314.37
4000.31	0.87	283.65	4000.10	25.48	18.17	-18.83	0.33	26.17	313.97
4025.51	1.31	283.60	4025.29	25.94	18.28	-19.30	1.72	26.58	313.45
4050.96	1.35	290.40	4050.74	26.51	18.45	-19.86	0.65	27.11	312.90
4075.01	1.41	286.37	4074.78	27.08	18.64	-20.41	0.48	27.64	312.40
4100.03	1.38	288.92	4099.80	27.67	18.82	-20.99	0.29	28.19	311.88
4125.63	1.30	285.26	4125.39	28.25	19.00	-21.56	0.44	28.74	311.38
4150.81	1.40	291.04	4150.56	28.83	19.18	-22.13	0.66	29.28	310.92
4175.53	1.53	289.21	4175.27	29.45	19.40	-22.72	0.56	29.87	310.49
4201.06	1.41	289.96	4200.80	30.09	19.62	-23.33	0.47	30.48	310.05
4226.68	1.32	290.05	4226.41	30.69	19.83	-23.91	0.36	31.06	309.67
4250.05	1.34	292.63	4249.77	31.22	20.02	-24.41	0.28	31.57	309.36
4275.67	1.27	284.94	4275.38	31.79	20.21	-24.96	0.74	32.12	309.00
4300.73	1.12	289.66	4300.43	32.30	20.37	-25.46	0.74	32.61	308.65
4325.09	1.10	288.86	4324.80	32.76	20.52	-25.91	0.10	33.05	308.38
4350.75	1.06	287.37	4350.45	33.23	20.67	-26.37	0.19	33.50	308.10
4375.85	1.13	287.84	4375.55	33.70	20.82	-26.82	0.27	33.95	307.81
4400.28	0.93	288.94	4399.97	34.13	20.95	-27.24	0.81	34.37	307.57
4425.10	1.15	288.55	4424.78	34.57	21.10	-27.66	0.87	34.79	307.33
4451.20	1.01	285.63	4450.88	35.04	21.24	-28.13	0.56	35.25	307.06
4475.21	0.75	274.93	4474.89	35.39	21.31	-28.49	1.27	35.58	306.80
4500.40	0.91	273.36	4500.08	35.71	21.34	-28.86	0.63	35.89	306.48
4525.30	0.77	263.20	4524.97	36.02	21.33	-29.22	0.81	36.18	306.13
4550.17	0.92	255.39	4549.84	36.29	21.26	-29.58	0.75	36.43	305.71

Well Name: PREMIUM TURKEY FARMS B#2
Survey: PREMIUM TURKEY FARMS B#2
Survey Date: 6/23/2014

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS 7100ft	Closure Distance ft	Closure Direction deg
4576.11	0.75	257.27	4575.78	36.56	21.17	-29.94	0.66	36.67	305.26
4600.82	0.77	254.46	4600.48	36.79	21.09	-30.26	0.17	36.89	304.88
4625.57	0.98	257.77	4625.23	37.06	21.00	-30.63	0.89	37.14	304.44
4651.54	1.38	270.25	4651.19	37.50	20.96	-31.16	1.83	37.55	303.92
4675.92	1.51	268.94	4675.57	38.02	20.95	-31.78	0.53	38.06	303.40
4700.58	1.70	271.79	4700.22	38.62	20.96	-32.47	0.85	38.64	302.84
4725.30	1.83	271.63	4724.92	39.28	20.98	-33.23	0.52	39.30	302.27
4751.00	1.63	260.10	4750.62	39.92	20.93	-34.00	1.56	39.92	301.62
4775.06	1.63	267.49	4774.67	40.46	20.86	-34.68	0.87	40.46	301.02
4784.85	1.57	271.47	4784.46	40.70	20.85	-34.95	1.28	40.70	300.82