



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

Well Location	WELD COUNTY, CO
Well Name	PREMIUM TURKEY FARMS C-1
Rig Number	NABORS 92-3376
Survey Date	6/27/2014
Latitude	40.1256100°N
Longitude	104.8753330°W
North Reference	True North
Grid Correction	None
Depth Reference	GROUND LEVEL (5033.00 ft)
Calculation Method	Minimum Curvature
Section (VS) Ref	0.00N (ft), 0.00E (ft), 287.98Azim (deg)
Definitive Survey	PREMIUM TURKEY FARMS C-1
Operator(s)	C JAQUES

Well Notes



Well Name:	PREMIUM TURKEY FARMS C-1
Survey:	PREMIUM TURKEY FARMS C-1
Survey Date:	6/27/2014

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
99.70	0.73	340.54	99.70	0.39	0.60	-0.21	0.74	0.64	340.54
124.11	0.64	340.27	124.11	0.57	0.88	-0.31	0.39	0.93	340.50
149.14	0.54	329.85	149.13	0.74	1.11	-0.42	0.58	1.18	339.43
174.19	0.37	323.61	174.18	0.89	1.28	-0.52	0.71	1.38	337.70
198.78	0.26	323.65	198.77	1.00	1.38	-0.60	0.43	1.51	336.46
224.94	0.21	309.68	224.94	1.09	1.46	-0.68	0.29	1.61	335.22
248.78	0.22	312.55	248.77	1.18	1.52	-0.74	0.08	1.69	333.97
274.13	0.22	302.51	274.12	1.27	1.58	-0.82	0.16	1.78	332.59
299.95	0.32	314.96	299.94	1.38	1.66	-0.91	0.47	1.89	331.18
324.46	0.27	304.88	324.46	1.50	1.74	-1.01	0.31	2.01	329.91
349.07	0.33	302.35	349.06	1.62	1.81	-1.11	0.25	2.13	328.38
374.95	0.33	292.98	374.94	1.77	1.88	-1.25	0.21	2.26	326.45
399.11	0.39	305.12	399.10	1.91	1.95	-1.38	0.39	2.39	324.80
424.93	0.44	290.48	424.92	2.10	2.04	-1.54	0.45	2.56	322.89
449.44	0.83	282.56	449.43	2.37	2.11	-1.81	1.65	2.78	319.47
474.15	0.95	284.35	474.14	2.75	2.20	-2.18	0.46	3.10	315.29
499.40	0.88	279.88	499.38	3.15	2.29	-2.57	0.38	3.44	311.64
523.97	0.92	280.55	523.95	3.53	2.35	-2.95	0.17	3.77	308.58
549.62	0.96	280.30	549.60	3.95	2.43	-3.37	0.17	4.15	305.83
574.22	0.91	280.41	574.19	4.35	2.50	-3.76	0.20	4.52	303.63
598.40	0.89	279.33	598.37	4.73	2.57	-4.14	0.13	4.87	301.83
624.97	0.84	279.78	624.94	5.12	2.63	-4.53	0.18	5.24	300.17
649.01	0.90	278.68	648.98	5.49	2.69	-4.89	0.27	5.59	298.82
674.37	0.85	277.56	674.33	5.87	2.75	-5.28	0.21	5.95	297.50
698.72	0.79	275.93	698.68	6.21	2.79	-5.63	0.27	6.28	296.37
724.15	0.79	277.43	724.10	6.56	2.83	-5.98	0.08	6.61	295.34
749.84	1.10	273.99	749.79	6.97	2.87	-6.40	1.20	7.01	294.16
774.39	0.76	270.76	774.33	7.36	2.89	-6.80	1.38	7.38	293.03
798.79	0.87	278.46	798.74	7.69	2.92	-7.14	0.64	7.71	292.23
824.67	0.97	280.30	824.62	8.10	2.99	-7.55	0.40	8.12	291.58
849.91	0.84	271.55	849.85	8.49	3.03	-7.95	0.75	8.50	290.87
874.34	0.84	277.90	874.28	8.84	3.06	-8.30	0.38	8.85	290.23
898.71	0.93	276.60	898.65	9.21	3.11	-8.68	0.38	9.22	289.70
924.56	1.15	277.71	924.49	9.68	3.17	-9.15	0.84	9.68	289.10
948.68	0.85	271.46	948.61	10.08	3.20	-9.56	1.33	10.08	288.52

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Survey Date:	6/27/2014

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	DLS	Closure Distance	Closure Direction
ft	deg	deg	ft	ft	ft	ft	7100ft	ft	deg
974.39	0.83	272.47	974.31	10.45	3.22	-9.94	0.09	10.45	287.93
998.86	0.87	275.85	998.78	10.80	3.24	-10.30	0.27	10.80	287.47
1024.54	0.86	273.46	1024.46	11.18	3.27	-10.69	0.15	11.18	287.03
1049.42	0.85	274.13	1049.34	11.54	3.30	-11.06	0.07	11.54	286.61
1073.83	0.88	274.37	1073.74	11.89	3.33	-11.42	0.14	11.90	286.23
1099.94	0.83	262.54	1099.85	12.26	3.32	-11.81	0.70	12.27	285.68
1124.57	0.65	262.29	1124.47	12.55	3.27	-12.13	0.73	12.56	285.11
1149.03	0.79	278.64	1148.94	12.84	3.28	-12.43	1.00	12.86	284.78
1174.73	0.60	262.03	1174.64	13.14	3.29	-12.74	1.06	13.16	284.47
1199.71	0.71	261.93	1199.61	13.39	3.25	-13.03	0.43	13.43	284.00
1224.89	0.66	272.93	1224.79	13.68	3.23	-13.33	0.56	13.71	283.64
1248.98	0.60	248.19	1248.88	13.91	3.19	-13.58	1.15	13.95	283.23
1274.04	0.55	257.46	1273.94	14.11	3.12	-13.82	0.42	14.17	282.72
1299.30	0.54	256.96	1299.20	14.32	3.07	-14.06	0.04	14.39	282.30
1324.50	0.52	254.01	1324.40	14.52	3.01	-14.29	0.16	14.60	281.89
1349.43	0.48	253.46	1349.32	14.70	2.95	-14.49	0.14	14.79	281.49
1374.56	0.49	253.37	1374.46	14.87	2.89	-14.70	0.05	14.98	281.11
1399.85	0.43	249.93	1399.75	15.03	2.82	-14.89	0.28	15.16	280.73
1423.90	0.51	250.14	1423.80	15.19	2.76	-15.08	0.34	15.33	280.36
1449.00	0.47	249.71	1448.89	15.36	2.68	-15.28	0.18	15.51	279.96
1474.31	0.44	248.29	1474.20	15.51	2.61	-15.46	0.10	15.68	279.58
1499.95	0.43	249.55	1499.84	15.67	2.54	-15.65	0.06	15.85	279.22
1523.48	0.39	254.89	1523.37	15.80	2.49	-15.81	0.26	16.00	278.94
1549.87	0.45	255.05	1549.76	15.96	2.44	-15.99	0.25	16.18	278.67
1574.01	0.45	254.37	1573.90	16.12	2.39	-16.18	0.02	16.35	278.40
1599.25	0.44	253.67	1599.13	16.29	2.33	-16.36	0.07	16.53	278.12
1624.07	0.52	253.84	1623.96	16.46	2.28	-16.56	0.35	16.72	277.82
1648.37	0.70	274.68	1648.26	16.69	2.26	-16.82	1.15	16.97	277.64
1674.44	0.56	267.60	1674.32	16.97	2.26	-17.10	0.60	17.25	277.54
1699.12	0.60	274.73	1699.00	17.21	2.27	-17.35	0.33	17.50	277.45
1724.06	0.58	283.00	1723.94	17.46	2.31	-17.60	0.35	17.76	277.47
1748.44	0.59	288.01	1748.31	17.71	2.38	-17.84	0.22	18.00	277.58
1774.51	0.52	278.30	1774.38	17.96	2.43	-18.09	0.45	18.25	277.67
1799.38	0.42	275.70	1799.25	18.16	2.46	-18.29	0.41	18.46	277.66
1824.12	0.57	267.30	1823.99	18.36	2.46	-18.51	0.66	18.67	277.58
1848.43	0.58	254.62	1848.31	18.58	2.43	-18.75	0.52	18.90	277.37

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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
1874.61	0.59	260.96	1874.48	18.81	2.37	-19.01	0.25	19.16	277.10
1899.39	0.68	264.64	1899.26	19.06	2.34	-19.28	0.42	19.42	276.91
1924.20	0.80	265.96	1924.07	19.36	2.31	-19.60	0.47	19.74	276.72
1948.58	0.81	271.16	1948.44	19.68	2.30	-19.94	0.30	20.08	276.58
1974.72	0.69	277.18	1974.58	20.01	2.32	-20.29	0.56	20.42	276.54
1999.57	0.62	265.00	1999.44	20.28	2.33	-20.57	0.62	20.70	276.47
2024.79	0.58	283.94	2024.66	20.53	2.35	-20.83	0.80	20.96	276.44
2049.65	0.41	264.31	2049.51	20.74	2.37	-21.04	0.95	21.17	276.43
2073.96	0.76	263.12	2073.82	20.97	2.34	-21.28	1.44	21.41	276.28
2099.65	0.87	267.32	2099.51	21.30	2.31	-21.64	0.49	21.77	276.10
2124.12	0.72	261.43	2123.98	21.61	2.28	-21.98	0.68	22.10	275.93
2149.72	0.75	285.17	2149.57	21.93	2.30	-22.30	1.19	22.42	275.89
2174.10	0.82	275.99	2173.95	22.25	2.36	-22.63	0.59	22.75	275.96
2199.32	0.72	280.89	2199.17	22.59	2.41	-22.96	0.47	23.09	275.99
2224.98	0.52	268.37	2224.83	22.86	2.44	-23.24	0.92	23.37	275.99
2248.97	0.76	270.70	2248.81	23.11	2.44	-23.51	1.01	23.63	275.92
2274.53	0.82	256.26	2274.38	23.43	2.39	-23.86	0.80	23.98	275.73
2299.71	0.71	260.50	2299.55	23.72	2.33	-24.18	0.48	24.30	275.50
2324.12	0.71	267.77	2323.96	24.00	2.30	-24.48	0.37	24.59	275.36
2349.65	0.60	271.08	2349.49	24.27	2.29	-24.78	0.48	24.88	275.29
2374.06	0.54	256.85	2373.90	24.49	2.27	-25.01	0.62	25.12	275.18
2399.49	0.37	242.88	2399.33	24.65	2.20	-25.20	0.80	25.30	275.00
2424.79	0.44	251.73	2424.63	24.79	2.14	-25.37	0.37	25.46	274.82
2448.98	0.22	256.10	2448.81	24.90	2.10	-25.50	0.93	25.59	274.70
2474.69	0.18	317.55	2474.53	24.98	2.11	-25.57	0.79	25.66	274.73
2499.13	0.29	333.59	2498.97	25.05	2.20	-25.63	0.54	25.72	274.90
2524.74	0.31	52.12	2524.57	25.06	2.30	-25.60	1.49	25.70	275.13
2549.90	0.25	10.93	2549.73	25.03	2.39	-25.54	0.82	25.65	275.36
2574.18	0.32	7.59	2574.01	25.05	2.51	-25.52	0.29	25.64	275.62
2599.73	0.24	346.12	2599.56	25.09	2.63	-25.52	0.50	25.66	275.89
2624.10	0.57	353.79	2623.93	25.16	2.80	-25.55	1.37	25.70	276.26
2649.66	0.46	2.63	2649.49	25.24	3.03	-25.56	0.53	25.74	276.77
2674.80	0.21	14.13	2674.63	25.27	3.18	-25.54	1.03	25.74	277.09
2699.14	0.28	5.29	2698.97	25.29	3.28	-25.52	0.33	25.73	277.32
2724.76	0.53	347.74	2724.59	25.36	3.46	-25.54	1.09	25.78	277.71
2749.14	0.61	341.10	2748.97	25.50	3.69	-25.61	0.43	25.87	278.21

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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
2774.69	0.31	354.74	2774.52	25.61	3.89	-25.66	1.26	25.95	278.62
2799.78	0.42	354.57	2799.61	25.67	4.05	-25.68	0.45	25.99	278.97
2824.10	0.43	340.63	2823.92	25.76	4.23	-25.71	0.43	26.06	279.34
2849.59	0.39	345.78	2849.41	25.87	4.40	-25.77	0.22	26.14	279.69
2874.09	0.50	347.18	2873.91	25.97	4.58	-25.81	0.46	26.22	280.07
2899.69	0.33	339.17	2899.51	26.07	4.76	-25.86	0.69	26.30	280.43
2924.48	0.29	314.24	2924.31	26.17	4.87	-25.93	0.57	26.39	280.64
2948.83	0.48	331.79	2948.65	26.30	5.00	-26.02	0.92	26.50	280.89
2973.94	0.46	327.63	2973.77	26.45	5.18	-26.13	0.15	26.64	281.22
2999.71	0.41	332.14	2999.53	26.60	5.35	-26.23	0.25	26.77	281.53
3024.40	0.32	332.11	3024.22	26.71	5.49	-26.30	0.33	26.87	281.79
3049.93	0.58	291.87	3049.75	26.89	5.60	-26.45	1.54	27.04	281.96
3074.65	0.51	295.46	3074.47	27.13	5.70	-26.67	0.30	27.27	282.06
3099.37	0.28	293.48	3099.19	27.30	5.77	-26.82	0.95	27.44	282.14
3124.02	0.48	307.05	3123.84	27.45	5.85	-26.96	0.89	27.59	282.25
3149.11	0.56	277.66	3148.93	27.67	5.93	-27.17	1.09	27.81	282.32
3174.99	0.53	289.07	3174.81	27.92	5.99	-27.41	0.43	28.05	282.33
3199.74	0.42	271.45	3199.55	28.12	6.03	-27.61	0.75	28.26	282.32
3223.99	0.71	274.79	3223.80	28.35	6.04	-27.84	1.21	28.49	282.25
3249.91	0.66	267.04	3249.72	28.65	6.05	-28.15	0.40	28.80	282.13
3274.55	0.60	306.27	3274.36	28.90	6.12	-28.40	1.73	29.05	282.16
3299.35	0.46	314.34	3299.16	29.11	6.27	-28.58	0.64	29.25	282.37
3323.47	0.59	274.11	3323.28	29.32	6.34	-28.77	1.57	29.46	282.43
3349.43	1.07	269.93	3349.24	29.68	6.35	-29.14	1.86	29.83	282.30
3374.06	0.72	285.46	3373.87	30.05	6.39	-29.52	1.70	30.20	282.22
3399.82	0.35	292.15	3399.62	30.29	6.47	-29.75	1.44	30.44	282.26
3424.69	0.54	275.01	3424.49	30.48	6.50	-29.94	0.91	30.63	282.26
3448.96	0.94	271.82	3448.76	30.78	6.52	-30.25	1.65	30.94	282.17
3474.80	0.91	282.80	3474.60	31.19	6.57	-30.66	0.69	31.36	282.10
3499.62	0.81	289.57	3499.41	31.56	6.68	-31.02	0.58	31.73	282.15
3524.30	0.80	267.78	3524.09	31.90	6.73	-31.35	1.23	32.07	282.11
3549.75	0.76	267.43	3549.54	32.22	6.71	-31.70	0.17	32.40	281.96
3574.42	0.56	278.61	3574.21	32.49	6.72	-31.98	0.96	32.68	281.87
3599.16	0.69	271.62	3598.94	32.75	6.75	-32.25	0.63	32.94	281.81
3623.85	1.01	271.71	3623.64	33.11	6.76	-32.61	1.30	33.31	281.70
3649.32	0.79	286.84	3649.10	33.50	6.81	-33.01	1.28	33.70	281.66

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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
3674.40	0.54	264.70	3674.18	33.78	6.85	-33.29	1.40	33.99	281.63
3699.08	0.72	251.15	3698.86	34.01	6.79	-33.55	0.94	34.23	281.44
3724.97	1.02	262.96	3724.74	34.35	6.71	-33.93	1.33	34.59	281.19
3748.89	0.78	262.85	3748.66	34.69	6.66	-34.31	0.97	34.95	280.99
3774.83	0.55	288.68	3774.60	34.97	6.68	-34.60	1.45	35.24	280.93
3798.88	1.06	280.77	3798.64	35.31	6.76	-34.93	2.16	35.58	280.95
3824.83	0.90	260.93	3824.59	35.73	6.77	-35.36	1.44	36.01	280.84
3849.35	0.45	254.26	3849.11	35.98	6.72	-35.65	1.84	36.27	280.67
3873.88	0.69	226.64	3873.64	36.13	6.59	-35.85	1.46	36.45	280.42
3899.28	1.12	238.09	3899.04	36.36	6.35	-36.17	1.82	36.72	279.96
3924.80	0.61	269.64	3924.55	36.65	6.22	-36.52	2.67	37.04	279.67
3949.03	0.36	312.41	3948.78	36.84	6.27	-36.70	1.74	37.23	279.70
3974.49	0.19	158.99	3974.25	36.89	6.28	-36.74	2.12	37.28	279.70
3999.52	0.23	249.00	3999.28	36.90	6.23	-36.78	1.21	37.30	279.61
4023.65	0.48	311.19	4023.40	37.03	6.27	-36.90	1.76	37.43	279.65
4049.20	0.35	13.83	4048.96	37.14	6.42	-36.96	1.74	37.51	279.86
4074.66	0.19	347.39	4074.41	37.16	6.54	-36.95	0.79	37.52	280.03
4098.89	0.23	317.20	4098.64	37.22	6.61	-36.99	0.47	37.58	280.13
4123.94	0.79	36.37	4123.69	37.21	6.79	-36.92	3.11	37.54	280.41
4149.39	1.04	25.68	4149.13	37.13	7.13	-36.72	1.18	37.40	281.00
4174.75	0.80	6.55	4174.49	37.13	7.52	-36.60	1.52	37.36	281.61
4198.96	0.58	28.81	4198.70	37.14	7.79	-36.52	1.42	37.34	282.04
4224.31	0.49	27.25	4224.05	37.10	8.00	-36.41	0.36	37.28	282.39
4249.86	0.70	44.67	4249.60	37.01	8.21	-36.25	1.07	37.17	282.75
4274.90	0.50	32.94	4274.64	36.92	8.41	-36.08	0.92	37.05	283.11
4299.56	0.59	40.45	4299.30	36.84	8.59	-35.94	0.45	36.96	283.44
4323.79	0.63	44.09	4323.52	36.73	8.78	-35.77	0.25	36.83	283.79
4349.34	0.46	54.29	4349.08	36.61	8.94	-35.59	0.77	36.70	284.11
4374.78	0.63	46.01	4374.51	36.49	9.10	-35.41	0.72	36.56	284.41
4398.94	0.68	55.84	4398.67	36.34	9.27	-35.19	0.52	36.39	284.76
4423.90	0.49	80.50	4423.63	36.15	9.37	-34.96	1.25	36.20	285.01
4449.01	0.60	56.29	4448.74	35.97	9.46	-34.75	0.99	36.01	285.24
4474.41	0.85	61.61	4474.14	35.76	9.63	-34.47	1.03	35.79	285.60
4499.95	0.77	79.83	4499.68	35.48	9.75	-34.13	1.05	35.50	285.94
4523.75	0.92	81.99	4523.47	35.16	9.80	-33.79	0.61	35.18	286.18
4548.07	1.14	83.29	4547.79	34.77	9.86	-33.36	0.91	34.78	286.46



Well Name: PREMIUM TURKEY FARMS C-1
 Survey: PREMIUM TURKEY FARMS C-1
 Survey Date: 6/27/2014

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS 7100ft	Closure Distance ft	Closure Direction deg
4574.09	1.17	84.30	4573.80	34.29	9.91	-32.83	0.17	34.30	286.80
4599.54	1.03	92.62	4599.25	33.83	9.93	-32.35	0.86	33.84	287.07
4623.80	0.64	86.15	4623.51	33.50	9.93	-32.00	1.65	33.50	287.24
4649.41	0.77	82.53	4649.11	33.21	9.96	-31.68	0.55	33.21	287.45
4674.51	1.22	83.51	4674.21	32.82	10.01	-31.25	1.80	32.82	287.77
4689.35	0.99	81.57	4689.05	32.56	10.05	-30.97	1.58	32.56	287.98