



Gyroscopic Survey Report  
for  
KP KAUFMAN

Well Location	Weld
Well Name	Premium Turkey Farms C #2
Rig Number	
Survey Date	12/22/2014
Latitude	40.1254750°N
Longitude	104.8697190°W
North Reference	True North
Grid Correction	None
Depth Reference	GL (5019.00 ft)
Calculation Method	Minimum Curvature
Section (VS) Ref	0.00N (ft), 0.00E (ft), 282.59Azim (deg)
Definitive Survey	Keeper Gyro Survey Wireline: Inrun
Operator(s)	T Cellan

**Well Notes**

Survey ran inside 4.5" casing, 100' to 4562'.

API-05-123-08943

# Survey Report

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**Survey Date:** 12/22/2014

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	Closure Distance ft	Closure Direction deg	Course Length ft	DLS °/100ft
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Invalid	Invalid
88.86	0.32	160.52	88.86	-0.13	-0.23	0.08	0.25	160.52	88.86	0.36
101.25	0.35	159.61	101.25	-0.17	-0.30	0.11	0.32	160.42	12.39	0.27
125.69	0.36	165.74	125.69	-0.25	-0.45	0.15	0.47	161.15	24.44	0.16
151.11	0.45	174.00	151.11	-0.31	-0.62	0.18	0.65	163.66	25.41	0.41
177.60	0.35	185.71	177.59	-0.36	-0.80	0.18	0.82	167.07	26.49	0.47
200.77	0.58	170.09	200.76	-0.41	-0.99	0.20	1.01	168.71	23.17	1.11
227.44	0.27	194.80	227.43	-0.46	-1.18	0.20	1.20	170.18	26.67	1.32
251.98	0.21	256.33	251.98	-0.42	-1.25	0.15	1.26	173.28	24.54	1.01
275.50	0.29	256.09	275.50	-0.32	-1.27	0.05	1.27	177.83	23.52	0.36
302.14	0.35	265.98	302.13	-0.19	-1.30	-0.10	1.30	184.34	26.64	0.30
325.14	0.35	263.19	325.14	-0.05	-1.31	-0.24	1.33	190.28	23.01	0.07
351.09	0.28	266.48	351.08	0.08	-1.32	-0.38	1.37	195.98	25.94	0.26
376.94	0.30	286.04	376.94	0.21	-1.31	-0.51	1.40	201.15	25.85	0.38
400.10	0.38	287.23	400.09	0.34	-1.27	-0.64	1.42	206.66	23.16	0.37
426.05	0.37	277.99	426.04	0.51	-1.23	-0.80	1.47	213.05	25.95	0.24
452.04	0.36	273.27	452.03	0.68	-1.21	-0.96	1.55	218.42	25.99	0.12
477.71	0.29	271.54	477.71	0.82	-1.21	-1.11	1.64	222.53	25.68	0.26
501.04	0.34	289.55	501.04	0.95	-1.18	-1.23	1.71	226.20	23.33	0.48
527.00	0.36	272.86	526.99	1.10	-1.15	-1.39	1.80	230.29	25.95	0.40
552.61	0.33	269.30	552.60	1.26	-1.15	-1.54	1.92	233.31	25.61	0.13
575.64	0.26	271.10	575.63	1.37	-1.15	-1.66	2.02	235.32	23.03	0.34
601.45	0.33	286.65	601.44	1.50	-1.13	-1.79	2.12	237.82	25.81	0.43
627.26	0.36	266.88	627.25	1.66	-1.11	-1.94	2.24	240.27	25.81	0.47
650.45	0.30	253.98	650.44	1.78	-1.13	-2.07	2.36	241.41	23.19	0.43
676.15	0.34	264.03	676.13	1.91	-1.16	-2.21	2.50	242.41	25.70	0.27
702.20	0.43	258.05	702.19	2.07	-1.18	-2.38	2.66	243.58	26.06	0.38
725.18	0.43	245.03	725.16	2.21	-1.24	-2.55	2.83	244.06	22.97	0.42
751.09	0.32	270.78	751.08	2.36	-1.28	-2.71	2.99	244.71	25.92	0.76
777.05	0.61	241.95	777.03	2.54	-1.34	-2.90	3.20	245.17	25.96	1.38
800.15	0.45	255.21	800.14	2.71	-1.42	-3.10	3.41	245.32	23.10	0.86
826.29	0.36	238.90	826.28	2.86	-1.49	-3.26	3.59	245.45	26.14	0.56
852.10	0.54	232.97	852.08	3.00	-1.61	-3.43	3.79	244.92	25.81	0.72
875.32	0.58	227.75	875.30	3.14	-1.75	-3.60	4.01	244.10	23.22	0.28
901.34	0.51	247.57	901.32	3.31	-1.88	-3.81	4.25	243.70	26.02	0.76
927.37	0.55	254.57	927.35	3.51	-1.96	-4.04	4.49	244.10	26.03	0.28

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MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	Closure Distance ft	Closure Direction deg	Course Length ft	DLS °/100ft
950.65	0.56	223.13	950.63	3.67	-2.07	-4.22	4.70	243.85	23.27	1.28
977.15	0.49	220.06	977.13	3.78	-2.25	-4.38	4.93	242.79	26.51	0.28
1000.39	0.56	231.43	1000.36	3.90	-2.40	-4.53	5.13	242.11	23.23	0.55
1026.51	0.48	228.59	1026.48	4.05	-2.55	-4.72	5.36	241.58	26.12	0.33
1050.28	0.47	241.95	1050.26	4.18	-2.66	-4.88	5.56	241.36	23.77	0.47
1076.72	0.50	235.03	1076.70	4.34	-2.78	-5.07	5.78	241.24	26.44	0.24
1103.08	0.50	237.55	1103.05	4.50	-2.91	-5.26	6.01	241.05	26.35	0.09
1127.01	0.62	232.91	1126.98	4.66	-3.05	-5.45	6.25	240.82	23.93	0.53
1150.44	0.51	225.39	1150.41	4.80	-3.20	-5.63	6.47	240.42	23.43	0.57
1176.52	0.60	242.68	1176.49	4.97	-3.34	-5.83	6.72	240.21	26.08	0.72
1200.48	0.49	223.62	1200.45	5.11	-3.47	-6.02	6.94	240.02	23.97	0.87
1226.73	0.49	236.40	1226.70	5.25	-3.61	-6.19	7.16	239.71	26.25	0.41
1250.14	0.65	241.34	1250.11	5.42	-3.73	-6.38	7.40	239.69	23.41	0.72
1276.56	0.63	238.85	1276.53	5.63	-3.88	-6.64	7.69	239.71	26.42	0.14
1302.79	0.67	233.18	1302.75	5.84	-4.05	-6.89	7.99	239.57	26.23	0.30
1325.96	0.51	233.83	1325.93	6.00	-4.19	-7.08	8.22	239.39	23.17	0.70
1351.91	0.63	233.60	1351.87	6.16	-4.34	-7.29	8.48	239.22	25.95	0.44
1375.44	0.59	233.05	1375.40	6.33	-4.49	-7.49	8.73	239.05	23.53	0.16
1401.57	0.66	236.64	1401.53	6.52	-4.65	-7.72	9.01	238.92	26.13	0.30
1427.48	0.63	242.74	1427.43	6.73	-4.80	-7.97	9.30	238.94	25.90	0.28
1450.61	0.74	251.46	1450.57	6.96	-4.90	-8.22	9.57	239.19	23.14	0.66
1476.62	0.64	257.11	1476.58	7.23	-4.99	-8.52	9.88	239.65	26.01	0.48
1502.68	0.70	244.81	1502.63	7.49	-5.09	-8.81	10.17	239.98	26.06	0.60
1526.05	0.66	249.36	1526.00	7.71	-5.20	-9.06	10.45	240.17	23.36	0.28
1550.44	0.71	239.84	1550.38	7.94	-5.32	-9.33	10.74	240.28	24.39	0.51
1578.04	0.61	245.83	1577.98	8.19	-5.47	-9.61	11.06	240.35	27.60	0.46
1601.21	0.71	240.72	1601.15	8.39	-5.59	-9.85	11.32	240.41	23.17	0.53
1625.22	0.69	251.14	1625.16	8.63	-5.71	-10.11	11.61	240.55	24.01	0.54
1652.21	0.67	245.24	1652.15	8.89	-5.83	-10.41	11.93	240.75	26.98	0.27
1676.37	0.71	249.61	1676.31	9.13	-5.94	-10.68	12.22	240.91	24.16	0.26
1700.52	0.56	248.25	1700.46	9.35	-6.04	-10.93	12.49	241.09	24.16	0.60
1727.70	0.76	253.08	1727.64	9.62	-6.14	-11.23	12.80	241.33	27.18	0.76
1752.10	0.63	252.22	1752.03	9.88	-6.23	-11.51	13.09	241.59	24.40	0.54
1776.26	0.75	252.96	1776.19	10.13	-6.31	-11.79	13.37	241.82	24.16	0.48
1800.43	0.71	262.92	1800.36	10.41	-6.38	-12.09	13.67	242.18	24.17	0.54
1827.87	0.67	257.25	1827.80	10.72	-6.44	-12.42	13.99	242.60	27.45	0.29

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1852.17	0.64	267.26	1852.10	10.98	-6.47	-12.69	14.25	242.97	24.30	0.49
1875.95	0.69	263.47	1875.87	11.24	-6.50	-12.97	14.50	243.39	23.78	0.27
1900.18	0.76	259.78	1900.10	11.53	-6.54	-13.27	14.79	243.76	24.23	0.34
1927.71	0.70	274.97	1927.63	11.86	-6.56	-13.62	15.11	244.28	27.53	0.73
1951.98	0.71	272.50	1951.90	12.15	-6.54	-13.91	15.37	244.82	24.28	0.14
1976.81	0.76	285.00	1976.73	12.47	-6.49	-14.23	15.64	245.48	24.83	0.67
2001.40	0.72	280.93	2001.32	12.79	-6.42	-14.54	15.89	246.17	24.59	0.27
2025.91	0.79	285.76	2025.83	13.11	-6.34	-14.85	16.15	246.87	24.51	0.40
2050.24	0.83	261.10	2050.15	13.44	-6.33	-15.19	16.45	247.39	24.32	1.43
2077.70	0.78	286.16	2077.61	13.82	-6.30	-15.56	16.79	247.95	27.47	1.28
2102.25	0.82	295.00	2102.15	14.16	-6.18	-15.88	17.05	248.73	24.55	0.53
2126.69	0.81	288.89	2126.59	14.50	-6.05	-16.21	17.30	249.52	24.44	0.36
2151.02	0.82	283.93	2150.92	14.84	-5.96	-16.54	17.58	250.20	24.33	0.29
2175.17	0.80	287.57	2175.07	15.19	-5.86	-16.87	17.86	250.84	24.16	0.22
2202.24	0.92	284.80	2202.14	15.59	-5.75	-17.26	18.19	251.57	27.07	0.44
2225.84	0.83	294.04	2225.74	15.95	-5.63	-17.60	18.48	252.25	23.60	0.71
2253.56	0.57	288.82	2253.45	16.28	-5.51	-17.91	18.74	252.91	27.71	0.96
2277.18	0.62	290.38	2277.07	16.52	-5.42	-18.14	18.93	253.35	23.62	0.23
2301.33	0.50	296.87	2301.22	16.75	-5.33	-18.36	19.12	253.81	24.15	0.55
2325.39	0.50	292.79	2325.28	16.96	-5.24	-18.55	19.27	254.22	24.06	0.15
2352.79	0.59	293.90	2352.68	17.21	-5.14	-18.79	19.48	254.70	27.40	0.33
2376.86	0.36	287.46	2376.75	17.41	-5.07	-18.97	19.64	255.05	24.07	0.96
2400.91	0.50	300.03	2400.80	17.59	-4.99	-19.13	19.77	255.38	24.05	0.69
2425.34	0.51	266.18	2425.22	17.79	-4.95	-19.33	19.96	255.65	24.43	1.20
2452.39	0.56	309.65	2452.27	18.02	-4.87	-19.55	20.15	256.02	27.05	1.47
2476.37	0.48	298.12	2476.25	18.23	-4.75	-19.73	20.30	256.47	23.97	0.54
2500.51	0.67	305.26	2500.39	18.45	-4.62	-19.94	20.47	256.96	24.15	0.84
2527.53	0.78	308.76	2527.41	18.77	-4.41	-20.21	20.69	257.69	27.02	0.43
2551.02	0.78	311.60	2550.90	19.05	-4.20	-20.46	20.89	258.39	23.50	0.17
2575.06	0.86	315.87	2574.93	19.34	-3.97	-20.71	21.08	259.16	24.03	0.40
2602.15	0.86	327.14	2602.02	19.66	-3.65	-20.96	21.27	260.12	27.09	0.62
2626.19	0.86	328.80	2626.05	19.91	-3.35	-21.15	21.41	261.01	24.04	0.11
2650.23	1.02	343.05	2650.10	20.14	-2.99	-21.30	21.51	262.02	24.05	1.16
2677.40	1.07	345.92	2677.26	20.37	-2.51	-21.43	21.58	263.32	27.17	0.26
2701.54	0.92	344.97	2701.40	20.56	-2.11	-21.54	21.64	264.42	24.14	0.61
2725.60	1.13	342.91	2725.45	20.77	-1.69	-21.66	21.73	265.53	24.06	0.88

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2750.20	1.16	353.52	2750.05	20.97	-1.21	-21.76	21.79	266.81	24.60	0.87
2777.30	1.02	342.66	2777.15	21.18	-0.71	-21.86	21.87	268.14	27.10	0.92
2801.41	1.02	340.52	2801.25	21.40	-0.31	-22.00	22.00	269.20	24.10	0.16
2825.72	1.01	350.11	2825.56	21.60	0.11	-22.10	22.11	270.28	24.31	0.70
2850.05	0.84	338.90	2849.88	21.78	0.48	-22.21	22.21	271.25	24.33	1.00
2876.68	0.95	334.76	2876.50	22.02	0.87	-22.37	22.39	272.22	26.63	0.49
2900.96	0.84	344.96	2900.79	22.23	1.22	-22.50	22.54	273.11	24.28	0.80
2925.43	0.76	338.03	2925.26	22.40	1.55	-22.61	22.66	273.91	24.47	0.53
2952.67	0.81	336.76	2952.49	22.62	1.89	-22.75	22.83	274.75	27.23	0.21
2976.81	0.73	337.92	2976.63	22.80	2.19	-22.88	22.98	275.46	24.14	0.36
3001.05	0.66	340.97	3000.86	22.97	2.46	-22.98	23.11	276.11	24.24	0.31
3026.12	0.46	337.83	3025.94	23.10	2.69	-23.07	23.22	276.66	25.07	0.81
3051.60	0.67	331.57	3051.42	23.25	2.92	-23.18	23.36	277.17	25.48	0.84
3076.47	0.71	337.06	3076.28	23.44	3.19	-23.30	23.52	277.79	24.87	0.33
3101.17	0.74	337.91	3100.98	23.62	3.48	-23.42	23.68	278.44	24.70	0.12
3126.17	0.62	331.14	3125.98	23.80	3.75	-23.55	23.85	279.04	25.00	0.58
3151.06	0.53	342.10	3150.87	23.95	3.97	-23.65	23.98	279.54	24.89	0.56
3176.09	0.72	324.44	3175.90	24.13	4.21	-23.78	24.15	280.05	25.03	1.07
3201.16	0.65	321.15	3200.97	24.35	4.45	-23.96	24.37	280.53	25.07	0.31
3226.28	0.46	307.17	3226.08	24.56	4.62	-24.13	24.57	280.85	25.11	0.95
3251.28	0.56	318.12	3251.08	24.75	4.78	-24.29	24.76	281.12	25.00	0.57
3277.38	0.62	310.20	3277.18	24.98	4.96	-24.48	24.98	281.45	26.10	0.38
3302.52	0.59	310.03	3302.32	25.21	5.13	-24.69	25.21	281.74	25.14	0.08
3326.06	0.59	309.86	3325.86	25.43	5.29	-24.87	25.43	282.00	23.55	0.02
3350.73	0.53	298.52	3350.53	25.65	5.42	-25.07	25.65	282.21	24.66	0.51
3376.53	0.62	300.97	3376.33	25.90	5.55	-25.29	25.90	282.38	25.80	0.34
3401.12	0.54	294.78	3400.91	26.13	5.67	-25.51	26.13	282.53	24.59	0.41
3426.95	0.63	290.49	3426.74	26.39	5.77	-25.76	26.39	282.63	25.83	0.41
3451.56	0.77	294.90	3451.35	26.69	5.89	-26.03	26.69	282.74	24.62	0.60
3477.49	0.76	293.34	3477.28	27.03	6.03	-26.35	27.03	282.89	25.93	0.09
3502.13	0.67	301.65	3501.92	27.32	6.17	-26.62	27.33	283.05	24.64	0.57
3528.08	0.77	292.39	3527.87	27.64	6.31	-26.91	27.64	283.20	25.95	0.61
3550.01	0.73	296.32	3549.80	27.92	6.43	-27.17	27.92	283.32	21.93	0.30
3575.48	0.63	287.98	3575.26	28.22	6.55	-27.45	28.22	283.41	25.46	0.57
3600.94	0.65	291.15	3600.72	28.50	6.64	-27.72	28.50	283.48	25.47	0.17
3626.46	0.54	276.47	3626.23	28.76	6.71	-27.97	28.77	283.49	25.51	0.74

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3651.99	0.52	273.58	3651.77	29.00	6.73	-28.21	29.00	283.42	25.53	0.15
3677.31	0.43	279.36	3677.09	29.21	6.75	-28.42	29.21	283.37	25.32	0.37
3700.15	0.67	275.45	3699.93	29.42	6.78	-28.64	29.43	283.32	22.84	1.04
3725.69	0.59	277.16	3725.47	29.70	6.81	-28.91	29.70	283.25	25.54	0.32
3751.34	0.59	269.77	3751.12	29.96	6.83	-29.18	29.97	283.17	25.65	0.30
3777.00	0.66	285.20	3776.77	30.24	6.86	-29.45	30.24	283.12	25.66	0.71
3803.10	0.62	269.08	3802.87	30.53	6.90	-29.74	30.53	283.06	26.10	0.71
3825.06	0.65	281.50	3824.83	30.77	6.92	-29.98	30.77	283.00	21.96	0.64
3850.21	0.71	288.89	3849.98	31.07	7.00	-30.27	31.07	283.03	25.15	0.42
3875.46	0.72	279.39	3875.23	31.38	7.08	-30.57	31.38	283.04	25.25	0.47
3900.65	0.76	276.97	3900.41	31.71	7.13	-30.89	31.71	282.99	25.18	0.20
3926.00	0.80	279.08	3925.76	32.05	7.17	-31.24	32.05	282.93	25.36	0.17
3952.20	0.70	264.76	3951.96	32.38	7.19	-31.57	32.38	282.82	26.20	0.80
3977.50	0.87	269.57	3977.26	32.72	7.17	-31.92	32.72	282.66	25.30	0.72
4002.81	0.91	279.19	4002.56	33.10	7.20	-32.31	33.10	282.57	25.31	0.61
4025.24	0.99	275.01	4024.99	33.47	7.25	-32.68	33.47	282.51	22.43	0.49
4053.21	1.03	274.66	4052.95	33.96	7.29	-33.17	33.96	282.39	27.97	0.14
4075.93	1.04	279.60	4075.67	34.37	7.34	-33.58	34.37	282.33	22.72	0.40
4100.71	1.10	271.66	4100.45	34.83	7.39	-34.04	34.83	282.24	24.78	0.64
4126.49	0.97	283.99	4126.22	35.29	7.45	-34.50	35.29	282.18	25.78	0.99
4151.48	0.99	271.55	4151.21	35.72	7.50	-34.92	35.72	282.13	24.99	0.85
4177.72	0.95	284.72	4177.44	36.16	7.56	-35.36	36.16	282.08	26.24	0.86
4200.84	0.91	277.55	4200.56	36.53	7.64	-35.73	36.53	282.07	23.12	0.54
4226.20	1.03	287.34	4225.91	36.96	7.73	-36.15	36.96	282.07	25.36	0.82
4251.56	1.04	291.35	4251.27	37.42	7.88	-36.58	37.42	282.16	25.36	0.29
4277.13	0.93	278.49	4276.84	37.85	8.00	-37.00	37.85	282.20	25.57	0.97
4300.32	1.06	284.85	4300.03	38.25	8.08	-37.39	38.26	282.20	23.19	0.73
4325.20	0.99	277.67	4324.90	38.70	8.17	-37.83	38.70	282.19	24.88	0.58
4350.30	0.93	284.33	4350.00	39.12	8.25	-38.24	39.12	282.17	25.10	0.51
4375.40	0.84	282.49	4375.10	39.50	8.34	-38.61	39.51	282.19	25.10	0.34
4401.36	0.78	289.32	4401.05	39.87	8.44	-38.97	39.87	282.22	25.96	0.44
4425.12	0.84	282.40	4424.81	40.21	8.53	-39.29	40.21	282.25	23.77	0.48
4451.16	0.65	292.14	4450.85	40.54	8.63	-39.61	40.54	282.28	26.03	0.89
4476.67	0.69	283.84	4476.36	40.84	8.72	-39.90	40.84	282.32	25.51	0.42
4501.00	0.75	295.32	4500.69	41.14	8.82	-40.18	41.14	282.38	24.33	0.65
4526.10	0.60	300.80	4525.79	41.43	8.96	-40.45	41.43	282.49	25.10	0.65

**Well Name:** Premium Turkey Farms C #2  
**Survey:** Keeper Gyro Survey Wireline: Inrun  
**Survey Date:** 12/22/2014

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	Closure Distance	Closure Direction	Course Length	DLS
ft	deg	deg	ft	ft	ft	ft	ft	deg	ft	°/100ft

4551.87	0.62	294.03	4551.56	41.69	9.09	-40.69	41.69	282.59	25.77	0.29
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