

K. P. Kauffman Company, Inc.

Wetco Farms #8-10-17

SENE section 10-T4N-R66W

Weld Co., Colorado

Directional plot

Well Plan

Well Name	Vertical Section Azimuth	Units
Wetco Farms #8-10-17	319.00	ft,°/100ft

www.makinhole.com

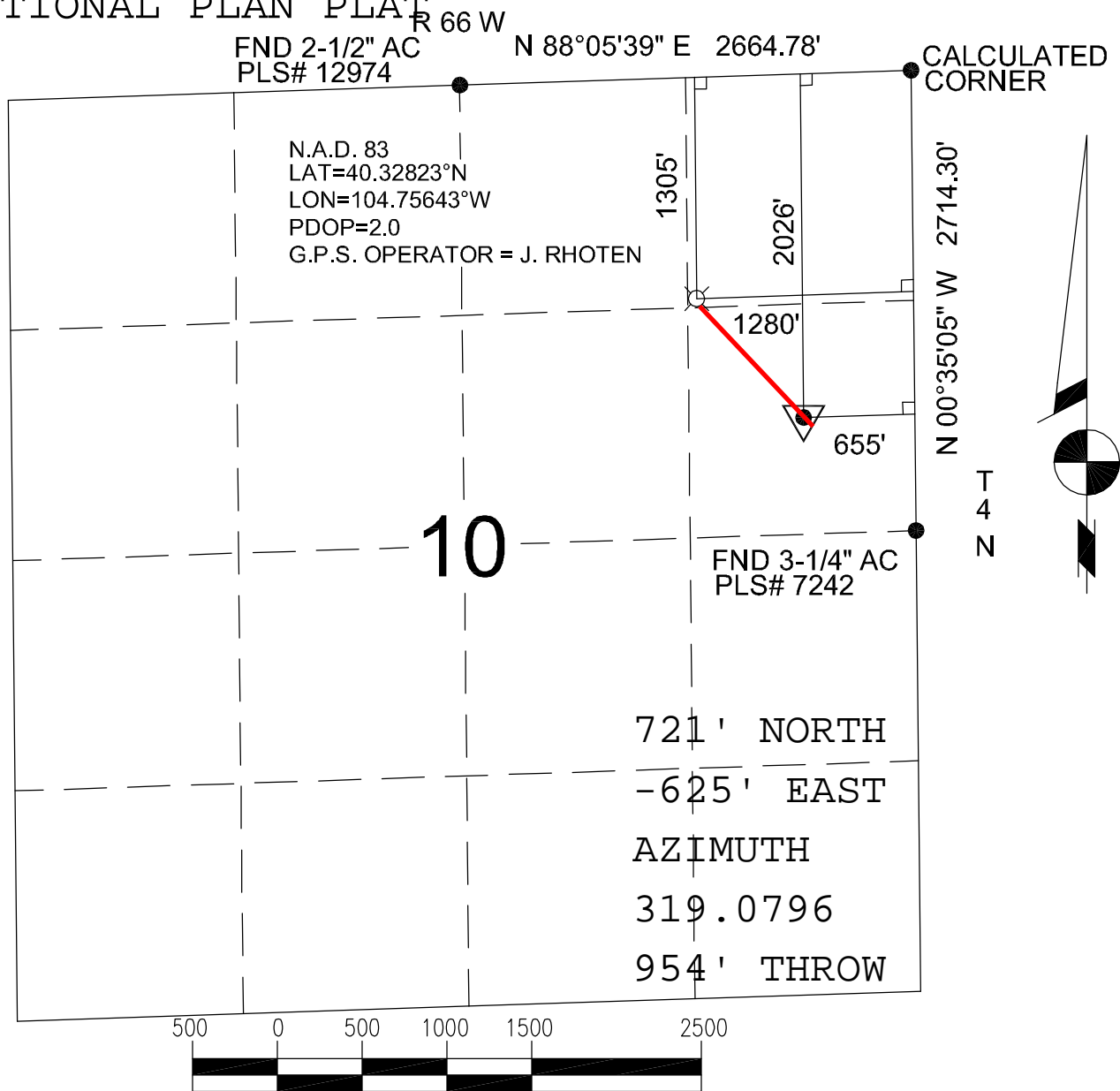
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	Vert. Sec.*	Description	Reference Note
0.00	0.00	0.0	0.00	0.00	0.00		0.00	tie point RKB	
100.00	0.00	0.0	100.00	0.00	0.00	0.00	0.00	vertical	
200.00	0.00	0.0	200.00	0.00	0.00	0.00	0.00	vertical	
300.00	0.00	0.0	300.00	0.00	0.00	0.00	0.00	vertical	
400.00	0.00	0.0	400.00	0.00	0.00	0.00	0.00	vertical	
500.00	0.00	0.0	500.00	0.00	0.00	0.00	0.00	vertical	
600.00	0.00	0.0	600.00	0.00	0.00	0.00	0.00	vertical	
700.00	0.00	0.0	700.00	0.00	0.00	0.00	0.00	vertical	
800.00	0.00	0.0	800.00	0.00	0.00	0.00	0.00	vertical	
900.00	0.00	0.0	900.00	0.00	0.00	0.00	0.00	vertical	
1000.00	0.00	0.0	1000.00	0.00	0.00	0.00	0.00	vertical	
1100.00	0.00	0.0	1100.00	0.00	0.00	0.00	0.00	vertical	
1200.00	0.00	0.0	1200.00	0.00	0.00	0.00	0.00	End vertical KOP	
1300.00	5.25	319.0	1299.86	3.46	-3.00	5.25	4.58	build	
1400.00	10.50	319.0	1398.88	13.79	-11.99	5.25	18.27	build	
1500.00	15.75	319.0	1496.24	30.92	-26.88	5.25	40.97	build	
1600.00	21.00	319.0	1591.10	54.71	-47.56	5.25	72.49	build	
1700.00	26.25	319.0	1682.69	84.94	-73.84	5.25	112.55	build	
1800.00	31.50	319.0	1770.23	121.37	-105.51	5.25	160.82	build	
1900.00	36.75	319.0	1852.98	163.70	-142.30	5.25	216.90	build	
1985.71	41.25	319.0	1919.58	204.40	-177.68	5.25	270.83	End build TOP OF DROP	
2000.00	40.95	319.0	1930.34	211.49	-183.84	2.08	280.22	drop/right	
2100.00	38.87	319.0	2007.04	259.91	-225.93	2.08	344.38	drop/right	
2200.00	36.79	319.0	2086.01	306.21	-266.16	2.08	405.71	drop/right	
2300.00	34.71	319.0	2167.16	350.31	-304.47	2.08	464.14	drop/right	
2400.00	32.63	319.0	2250.38	392.17	-340.83	2.08	519.58	drop/right	
2500.00	30.55	319.0	2335.56	431.73	-375.17	2.08	571.96	drop/right	
2600.00	28.47	319.1	2422.58	468.93	-407.46	2.08	621.22	drop/right	
2700.00	26.39	319.1	2511.33	503.73	-437.64	2.08	667.29	drop/right	

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	Vert. Sec.*	Description	Reference Note
2800.00	24.31	319.1	2601.69	536.08	-465.69	2.08	710.11	drop/right	
2900.00	22.23	319.1	2693.55	565.94	-491.57	2.08	749.62	drop/right	
3000.00	20.15	319.1	2786.78	593.27	-515.23	2.08	785.77	drop/right	
3100.00	18.07	319.1	2881.26	618.03	-536.65	2.08	818.51	drop/right	
3200.00	15.99	319.2	2976.87	640.19	-555.81	2.08	847.80	drop/right	
3300.00	13.91	319.2	3073.48	659.72	-572.67	2.08	873.60	drop/right	
3400.00	11.83	319.3	3170.96	676.60	-587.21	2.08	895.88	drop/right	
3500.00	9.75	319.4	3269.19	690.79	-599.42	2.08	914.60	drop/right	
3600.00	7.67	319.5	3368.03	702.30	-609.28	2.08	929.75	drop/right	
3700.00	5.59	319.7	3467.35	711.09	-616.77	2.08	941.30	drop/right	
3800.00	3.51	320.1	3567.03	717.16	-621.88	2.08	949.24	drop/right	
3900.00	1.43	321.9	3666.93	720.50	-624.62	2.08	953.55	drop/right	
3933.07	0.75	324.7	3700.00	721.00	-625.00	2.08	954.18	End drop/right	TOP OF PARKMAN
4000.00	0.58	324.7	3766.92	721.63	-625.45	0.25	954.96	drop/invert	
4100.00	0.33	324.7	3866.92	722.29	-625.91	0.25	955.75	drop/invert	
4200.00	0.08	324.7	3966.92	722.58	-626.12	0.25	956.11	drop/invert	
4300.00	0.17	144.7	4066.92	722.52	-626.08	0.25	956.04	drop/invert	
4400.00	0.42	144.7	4166.92	722.11	-625.78	0.25	955.53	drop/invert	
4500.00	0.67	144.7	4266.91	721.33	-625.24	0.25	954.59	drop/invert	
4533.09	0.75	144.7	4300.00	721.00	-625.00	0.25	954.18	End drop/invert	TOP OF SUSSEX
4600.00	0.55	144.7	4366.90	720.38	-624.56	0.30	953.43	drop/invert	
4700.00	0.25	144.7	4466.90	719.81	-624.16	0.30	952.74	drop/invert	
4800.00	0.05	324.7	4566.90	719.67	-624.06	0.30	952.56	drop/invert	
4900.00	0.35	324.7	4666.90	719.96	-624.26	0.30	952.91	drop/invert	
5000.00	0.65	324.7	4766.90	720.67	-624.77	0.30	953.78	drop/invert	
5033.11	0.75	324.7	4800.00	721.00	-625.00	0.30	954.18	End drop/invert	TOP OF SHANNON
5100.00	0.70	324.7	4866.89	721.69	-625.49	0.07	955.02	drop/invert	
5200.00	0.63	324.7	4966.88	722.64	-626.16	0.07	956.18	drop/invert	
5300.00	0.56	324.7	5066.88	723.48	-626.75	0.07	957.21	drop/invert	
5400.00	0.48	324.7	5166.87	724.22	-627.28	0.07	958.11	drop/invert	
5500.00	0.41	324.7	5266.87	724.86	-627.73	0.07	958.88	drop/invert	

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	Vert. Sec.*	Description	Reference Note
5600.00	0.34	324.7	5366.87	725.39	-628.11	0.07	959.54	drop/invert	
5700.00	0.27	324.7	5466.87	725.82	-628.41	0.07	960.06	drop/invert	
5800.00	0.19	324.7	5566.87	726.15	-628.64	0.07	960.46	drop/invert	
5900.00	0.12	324.7	5666.86	726.38	-628.80	0.07	960.73	drop/invert	
6000.00	0.05	324.7	5766.86	726.50	-628.89	0.07	960.88	drop/invert	
6100.00	0.02	144.7	5866.86	726.52	-628.90	0.07	960.91	drop/invert	
6200.00	0.10	144.7	5966.86	726.43	-628.84	0.07	960.80	drop/invert	
6300.00	0.17	144.7	6066.86	726.24	-628.71	0.07	960.57	drop/invert	
6400.00	0.24	144.7	6166.86	725.95	-628.50	0.07	960.22	drop/invert	
6500.00	0.31	144.7	6266.86	725.56	-628.23	0.07	959.74	drop/invert	
6600.00	0.38	144.7	6366.86	725.06	-627.87	0.07	959.14	drop/invert	
6700.00	0.46	144.7	6466.86	724.46	-627.45	0.07	958.40	drop/invert	
6800.00	0.53	144.7	6566.85	723.76	-626.95	0.07	957.55	drop/invert	
6900.00	0.60	144.7	6666.85	722.95	-626.38	0.07	956.57	drop/invert	
7000.00	0.67	144.7	6766.84	722.05	-625.74	0.07	955.46	drop/invert	
7100.00	0.75	144.7	6866.84	721.03	-625.02	0.07	954.22	drop/invert	
7103.16	0.75	144.7	6870.00	721.00	-625.00	0.07	954.18	End drop/invert TOP OF NIOBRARA	
7200.00	0.32	144.7	6966.83	720.26	-624.48	0.44	953.28	build/invert	
7300.00	0.11	324.7	7066.83	720.11	-624.37	0.44	953.10	build/invert	
7400.00	0.55	324.7	7166.83	720.58	-624.70	0.44	953.67	build/invert	
7445.17	0.75	324.7	7212.00	721.00	-625.00	0.44	954.18	End build/invert TOP OF FT HAYS	
7463.18	0.75	144.7	7230.00	721.00	-625.00	8.32	954.18	End build/invert TOP OF CODELL	
7500.00	0.63	144.7	7266.82	720.64	-624.74	0.32	953.74	build/invert	
7600.00	0.31	144.7	7366.82	719.97	-624.27	0.32	952.92	build/invert	
7700.00	0.01	324.7	7466.82	719.75	-624.11	0.32	952.65	build/invert	
7800.00	0.32	324.7	7566.82	719.98	-624.28	0.32	952.94	build/invert	
7900.00	0.64	324.7	7666.81	720.67	-624.77	0.32	953.78	build/invert	
7933.19	0.75	324.7	7700.00	721.00	-625.00	0.32	954.18	End build/invert TOP OF J-SAND	
8000.00	0.16	324.7	7766.81	721.43	-625.31	0.88	954.71	build/invert	
8100.00	0.72	144.7	7866.81	721.03	-625.02	0.88	954.22	build/invert	
8103.19	0.75	144.7	7870.00	721.00	-625.00	0.88	954.18	End build/invert TD	

DIRECTIONAL PLAN PLAT

BASIS OF BEARINGS: THE EAST LINE OF THE NE 1/4 OF SECTION 10, AS SHOWN HEREON.



Power Surveying Co., Inc. of Frederick, Colorado has in accordance with a request from MIKE PRITCHARD for KP KAUFFMAN

determined the location of WETCO FARMS 8-10-17

to be 2026' FNL & 655' FEL Section 10, Township 4 NORTH
Range 66 WEST of the Sixth Principal Meridian,
WELD County, Colorado

LOCATION NOTES

LOCATION FALLS IN: CORN FIELD

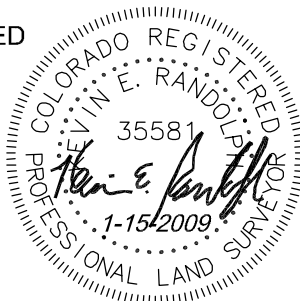
IMPROVEMENTS: EXISTING WELL 25' NE OF LOCATION

ELEVATION DETERMINED FROM NAVD 1988 DATUM.
GROUND ELEVATION = 4716'

DISTANCES AND BEARINGS ARE FIELD MEASURED
UNLESS OTHERWISE NOTED.

LEGEND

- SECTION CORNER (AS NOTED)
- ▼ PROPOSED WELL LOCATION
- ⊗ BOTTOM HOLE



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KEVIN E RANDOLPH
COLORADO P.L.S. #35581

FIELD DATE: 7-12-07 WO# 501-06-1131
DATE OF COMPLETION: 7-17-07
REVISED : 1-15-2009 (NAME CHANGE)