

December 1,2011
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PathTracker Survey 5.0.361
Survey Calculation Program

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Company: TEKTON WINDSOR, LLC
WellName: RANCHO WATER VALLEY #3-9-4
Location: SECTION 4, T5N R67W
NORTH REFERENCE IS TRUE NORTH

Surveyed by:
C.L.D.
Peterson Energy Management, Inc
2154 W. Eisenhower Blvd.
Loveland, CO 80537

Vertical Section calculated on an Azimuth of: 178.0230

Survey Calculation Method: Minimum Curvature

FileName: W:\Tekton Energy\Tekton Windsor Permitting\Rancho Water Valley\Rancho Water Valley #3-9-4\3-9-4 Surv 2.sr5

#	Depth Feet	Inc Degrees	Azimuth Degrees	TVD Feet	SubSea Feet	North Feet	East Feet	Section Feet	Dogleg /100f	BldRate /100f	Trnrate /100f	Comment
0	0.00	0.00	178.02	0.00	4790.00	0.00	0.00	0.00	0.00	0.00	0.00	
1	100.00	0.00	178.02	100.00	4690.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	200.00	0.00	178.02	200.00	4590.00	0.00	0.00	0.00	0.00	0.00	0.00	
3	300.00	0.00	178.02	300.00	4490.00	0.00	0.00	0.00	0.00	0.00	0.00	
4	400.00	0.00	178.02	400.00	4390.00	0.00	0.00	0.00	0.00	0.00	0.00	
5	500.00	2.00	178.02	499.98	4290.02	-1.74	0.06	1.75	2.00	2.00	0.00	
6	600.00	4.00	178.02	599.84	4190.16	-6.97	0.24	6.98	2.00	2.00	0.00	
7	700.00	6.00	178.02	699.45	4090.55	-15.68	0.54	15.69	2.00	2.00	0.00	
8	800.00	8.00	178.02	798.70	3991.30	-27.86	0.96	27.88	2.00	2.00	0.00	
9	900.00	10.00	178.02	897.47	3892.53	-43.50	1.50	43.52	2.00	2.00	0.00	
10	958.00	11.16	178.02	954.48	3835.52	-54.14	1.87	54.17	2.00	2.00	0.00	
11	1000.00	11.16	178.02	995.68	3794.32	-62.26	2.15	62.30	0.00	0.00	0.00	
12	1100.00	11.16	178.02	1093.79	3696.21	-81.61	2.82	81.66	0.00	0.00	0.00	
13	1200.00	11.16	178.02	1191.90	3598.10	-100.95	3.48	101.01	0.00	0.00	0.00	
14	1300.00	11.16	178.02	1290.01	3499.99	-120.29	4.15	120.37	0.00	0.00	0.00	
15	1400.00	11.16	178.02	1388.12	3401.88	-139.64	4.82	139.72	0.00	0.00	0.00	
16	1500.00	11.16	178.02	1486.23	3303.77	-158.98	5.49	159.08	0.00	0.00	0.00	
17	1600.00	11.16	178.02	1584.34	3205.66	-178.32	6.16	178.43	0.00	0.00	0.00	
18	1700.00	11.16	178.02	1682.45	3107.55	-197.67	6.82	197.79	0.00	0.00	0.00	
19	1800.00	11.16	178.02	1780.56	3009.44	-217.01	7.49	217.14	0.00	0.00	0.00	
20	1900.00	11.16	178.02	1878.67	2911.33	-236.35	8.16	236.50	0.00	0.00	0.00	
21	2000.00	11.16	178.02	1976.77	2813.23	-255.70	8.83	255.85	0.00	0.00	0.00	
22	2100.00	11.16	178.02	2074.88	2715.12	-275.04	9.49	275.21	0.00	0.00	0.00	
23	2200.00	11.16	178.02	2172.99	2617.01	-294.38	10.16	294.56	0.00	0.00	0.00	
24	2300.00	11.16	178.02	2271.10	2518.90	-313.73	10.83	313.92	0.00	0.00	0.00	
25	2400.00	11.16	178.02	2369.21	2420.79	-333.07	11.50	333.27	0.00	0.00	0.00	
26	2500.00	11.16	178.02	2467.32	2322.68	-352.42	12.16	352.62	0.00	0.00	0.00	
27	2600.00	11.16	178.02	2565.43	2224.57	-371.76	12.83	371.98	0.00	0.00	0.00	
28	2700.00	11.16	178.02	2663.54	2126.46	-391.10	13.50	391.33	0.00	0.00	0.00	
29	2800.00	11.16	178.02	2761.65	2028.35	-410.45	14.17	410.69	0.00	0.00	0.00	
30	2900.00	11.16	178.02	2859.76	1930.24	-429.79	14.84	430.04	0.00	0.00	0.00	
31	3000.00	11.16	178.02	2957.87	1832.13	-449.13	15.50	449.40	0.00	0.00	0.00	
32	3100.00	11.16	178.02	3055.97	1734.03	-468.48	16.17	468.75	0.00	0.00	0.00	
33	3200.00	11.16	178.02	3154.08	1635.92	-487.82	16.84	488.11	0.00	0.00	0.00	
34	3300.00	11.16	178.02	3252.19	1537.81	-507.16	17.51	507.46	0.00	0.00	0.00	
35	3400.00	11.16	178.02	3350.30	1439.70	-526.51	18.17	526.82	0.00	0.00	0.00	
36	3500.00	11.16	178.02	3448.41	1341.59	-545.85	18.84	546.17	0.00	0.00	0.00	
37	3600.00	11.16	178.02	3546.52	1243.48	-565.19	19.51	565.53	0.00	0.00	0.00	
38	3700.00	11.16	178.02	3644.63	1145.37	-584.54	20.18	584.88	0.00	0.00	0.00	
39	3800.00	11.16	178.02	3742.74	1047.26	-603.88	20.85	604.24	0.00	0.00	0.00	

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Vertical Section calculated on an Azimuth of: 178.0230

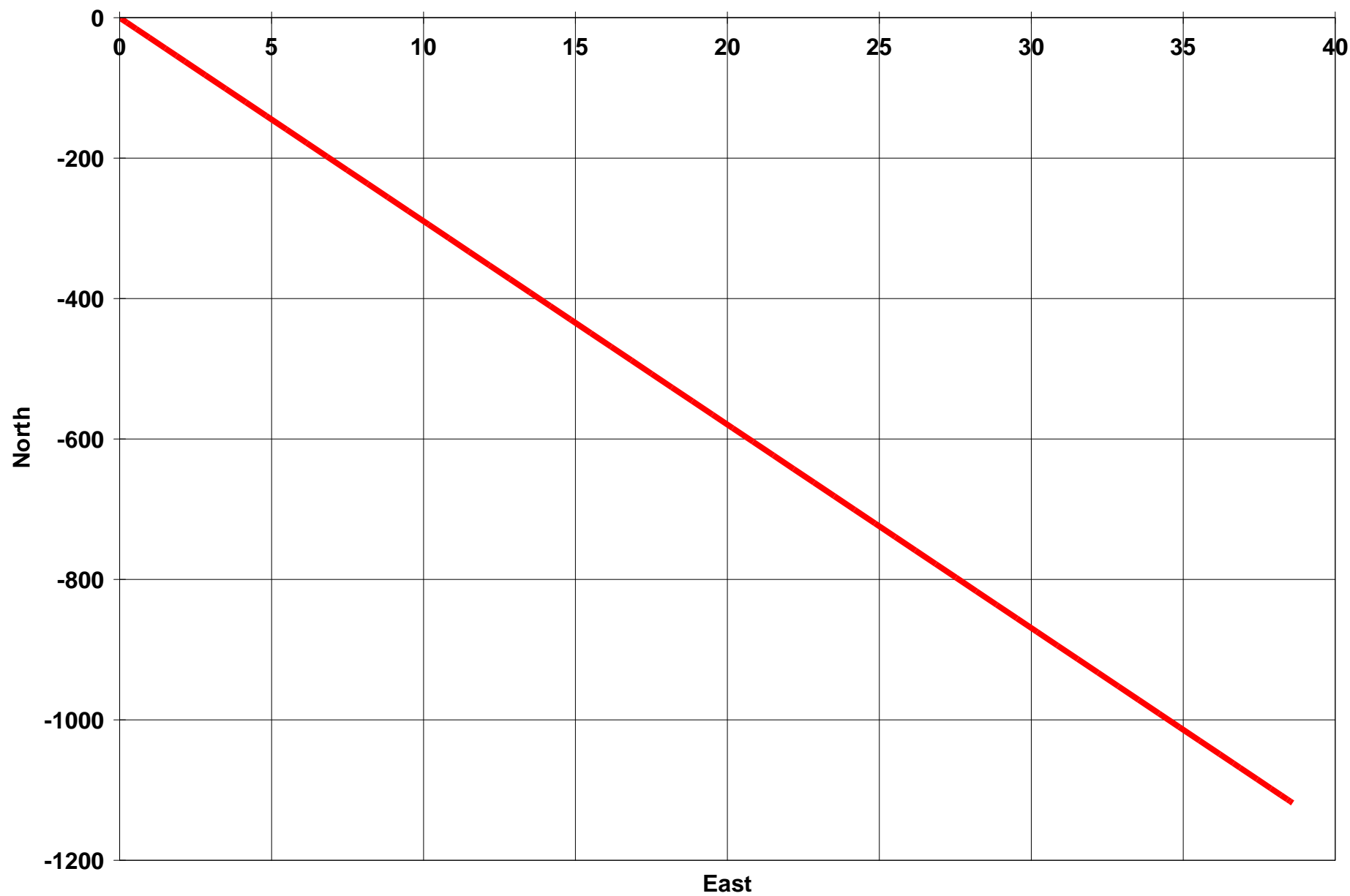
Survey Calculation Method: Minimum Curvature

FileName: W:\Tekton Energy\Tekton Windsor Permitting\Rancho Water Valley\Rancho Water Valley #3-9-4\3-9-4 Surv 2.sr5

#	Depth Feet	Inc Degrees	Azimuth Degrees	TVD Feet	SubSea Feet	North Feet	East Feet	Section Feet	Dogleg /100f	BldRate /100f	Trnrate /100f	Comment
40	3900.00	11.16	178.02	3840.85	949.15	-623.22	21.51	623.59	0.00	0.00	0.00	
41	4000.00	11.16	178.02	3938.96	851.04	-642.57	22.18	642.95	0.00	0.00	0.00	
42	4100.00	11.16	178.02	4037.07	752.93	-661.91	22.85	662.30	0.00	0.00	0.00	
43	4200.00	11.16	178.02	4135.17	654.83	-681.25	23.52	681.66	0.00	0.00	0.00	
44	4300.00	11.16	178.02	4233.28	556.72	-700.60	24.18	701.01	0.00	0.00	0.00	
45	4400.00	11.16	178.02	4331.39	458.61	-719.94	24.85	720.37	0.00	0.00	0.00	
46	4500.00	11.16	178.02	4429.50	360.50	-739.28	25.52	739.72	0.00	0.00	0.00	
47	4600.00	11.16	178.02	4527.61	262.39	-758.63	26.19	759.08	0.00	0.00	0.00	
48	4700.00	11.16	178.02	4625.72	164.28	-777.97	26.85	778.43	0.00	0.00	0.00	
49	4800.00	11.16	178.02	4723.83	66.17	-797.31	27.52	797.79	0.00	0.00	0.00	
50	4900.00	11.16	178.02	4821.94	-31.94	-816.66	28.19	817.14	0.00	0.00	0.00	
51	5000.00	11.16	178.02	4920.05	-130.05	-836.00	28.86	836.50	0.00	0.00	0.00	
52	5100.00	11.16	178.02	5018.15	-228.15	-855.34	29.53	855.85	0.00	0.00	0.00	
53	5200.00	11.16	178.02	5116.26	-326.26	-874.69	30.19	875.21	0.00	0.00	0.00	
54	5300.00	11.16	178.02	5214.37	-424.37	-894.03	30.86	894.56	0.00	0.00	0.00	
55	5400.00	11.16	178.02	5312.48	-522.48	-913.37	31.53	913.92	0.00	0.00	0.00	
56	5500.00	11.16	178.02	5410.59	-620.59	-932.72	32.20	933.27	0.00	0.00	0.00	
57	5600.00	11.16	178.02	5508.70	-718.70	-952.06	32.86	952.63	0.00	0.00	0.00	
58	5700.00	11.16	178.02	5606.81	-816.81	-971.41	33.53	971.98	0.00	0.00	0.00	
59	5800.00	11.16	178.02	5704.92	-914.92	-990.75	34.20	991.34	0.00	0.00	0.00	
60	5900.00	11.16	178.02	5803.03	-1013.03	-1010.09	34.87	1010.69	0.00	0.00	0.00	
61	6000.00	11.16	178.02	5901.13	-1111.13	-1029.44	35.54	1030.05	0.00	0.00	0.00	
62	6100.00	11.16	178.02	5999.24	-1209.24	-1048.78	36.20	1049.40	0.00	0.00	0.00	
63	6167.30	11.16	178.02	6065.27	-1275.27	-1061.80	36.65	1062.43	0.00	0.00	0.00	
64	6200.00	10.51	178.02	6097.39	-1307.39	-1067.94	36.86	1068.58	2.00	2.00	0.00	
65	6300.00	8.51	178.02	6196.01	-1406.01	-1084.44	37.43	1085.09	2.00	2.00	0.00	
66	6400.00	6.51	178.02	6295.15	-1505.15	-1097.50	37.88	1098.15	2.00	2.00	0.00	
67	6500.00	4.51	178.02	6394.68	-1604.68	-1107.09	38.22	1107.75	2.00	2.00	0.00	
68	6600.00	2.51	178.02	6494.49	-1704.49	-1113.20	38.43	1113.86	2.00	2.00	0.00	
69	6700.00	0.51	178.02	6594.45	-1804.45	-1115.82	38.52	1116.49	2.00	2.00	0.00	
70	6725.30	0.00	178.02	6619.75	-1829.75	-1115.94	38.52	1116.60	2.00	2.00	0.00	
71	6800.00	0.00	178.02	6694.45	-1904.45	-1115.94	38.52	1116.60	0.00	0.00	0.00	
72	6900.00	0.00	178.02	6794.45	-2004.45	-1115.94	38.52	1116.60	0.00	0.00	0.00	
73	7000.00	0.00	178.02	6894.45	-2104.45	-1115.94	38.52	1116.60	0.00	0.00	0.00	
74	7100.00	0.00	178.02	6994.45	-2204.45	-1115.94	38.52	1116.60	0.00	0.00	0.00	
75	7200.00	0.00	178.02	7094.45	-2304.45	-1115.94	38.52	1116.60	0.00	0.00	0.00	
76	7300.00	0.00	178.02	7194.45	-2404.45	-1115.94	38.52	1116.60	0.00	0.00	0.00	
77	7355.55	0.00	178.02	7250.00	-2460.00	-1115.94	38.52	1116.60	0.00	0.00	0.00	

Closure is 1116.6008 feet on an Azimuth of 178.0230

Plan View
RANCHO WATER VALLEY #3-9-4



Section View
RANCHO WATER VALLEY #3-9-4

