

November 22,2011
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PathTracker 5.0.361
Survey Calculation Program

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Company: TEKTON WINDSOR, LLC
WellName: RANCHO WATER VALLEY #2-8-4
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: 223.3978

Survey Calculation Method: Minimum Curvature

FileName: W:\Tekton Energy\Tekton Windsor Permitting\Rancho Water Valley\2-8-4 Surv.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	223.40	0.00	4790.00	0.00	0.00	0.00	0.00	0.00	0.00	
1	100.00	0.00	223.40	100.00	4690.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	200.00	0.00	223.40	200.00	4590.00	0.00	0.00	0.00	0.00	0.00	0.00	
3	300.00	0.00	223.40	300.00	4490.00	0.00	0.00	0.00	0.00	0.00	0.00	
4	400.00	0.00	223.40	400.00	4390.00	0.00	0.00	0.00	0.00	0.00	0.00	
5	500.00	0.00	223.40	500.00	4290.00	0.00	0.00	0.00	0.00	0.00	0.00	
6	570.00	0.00	223.40	570.00	4220.00	0.00	0.00	0.00	0.00	0.00	0.00	
7	600.00	0.60	223.40	600.00	4190.00	-0.11	-0.11	0.16	2.00	2.00	0.00	
8	700.00	2.60	223.40	699.96	4090.04	-2.14	-2.03	2.95	2.00	2.00	0.00	
9	800.00	4.60	223.40	799.75	3990.25	-6.70	-6.34	9.23	2.00	2.00	0.00	
10	895.00	6.50	223.40	894.30	3895.70	-13.38	-12.65	18.42	2.00	2.00	0.00	
11	900.00	6.50	223.40	899.27	3890.73	-13.79	-13.04	18.98	0.00	0.00	0.00	
12	1000.00	6.50	223.40	998.63	3791.37	-22.02	-20.82	30.30	0.00	0.00	0.00	
13	1100.00	6.50	223.40	1097.99	3692.01	-30.24	-28.60	41.62	0.00	0.00	0.00	
14	1200.00	6.50	223.40	1197.34	3592.66	-38.47	-36.37	52.94	0.00	0.00	0.00	
15	1300.00	6.50	223.40	1296.70	3493.30	-46.69	-44.15	64.26	0.00	0.00	0.00	
16	1400.00	6.50	223.40	1396.06	3393.94	-54.92	-51.93	75.58	0.00	0.00	0.00	
17	1500.00	6.50	223.40	1495.41	3294.59	-63.14	-59.71	86.90	0.00	0.00	0.00	
18	1600.00	6.50	223.40	1594.77	3195.23	-71.37	-67.49	98.22	0.00	0.00	0.00	
19	1700.00	6.50	223.40	1694.13	3095.87	-79.59	-75.26	109.54	0.00	0.00	0.00	
20	1800.00	6.50	223.40	1793.49	2996.51	-87.82	-83.04	120.86	0.00	0.00	0.00	
21	1900.00	6.50	223.40	1892.84	2897.16	-96.05	-90.82	132.18	0.00	0.00	0.00	
22	2000.00	6.50	223.40	1992.20	2797.80	-104.27	-98.60	143.50	0.00	0.00	0.00	
23	2100.00	6.50	223.40	2091.56	2698.44	-112.50	-106.37	154.83	0.00	0.00	0.00	
24	2200.00	6.50	223.40	2190.91	2599.09	-120.72	-114.15	166.15	0.00	0.00	0.00	
25	2300.00	6.50	223.40	2290.27	2499.73	-128.95	-121.93	177.47	0.00	0.00	0.00	
26	2400.00	6.50	223.40	2389.63	2400.37	-137.17	-129.71	188.79	0.00	0.00	0.00	
27	2500.00	6.50	223.40	2488.99	2301.01	-145.40	-137.49	200.11	0.00	0.00	0.00	
28	2600.00	6.50	223.40	2588.34	2201.66	-153.62	-145.26	211.43	0.00	0.00	0.00	
29	2700.00	6.50	223.40	2687.70	2102.30	-161.85	-153.04	222.75	0.00	0.00	0.00	
30	2800.00	6.50	223.40	2787.06	2002.94	-170.07	-160.82	234.07	0.00	0.00	0.00	
31	2900.00	6.50	223.40	2886.41	1903.59	-178.30	-168.60	245.39	0.00	0.00	0.00	
32	3000.00	6.50	223.40	2985.77	1804.23	-186.52	-176.37	256.71	0.00	0.00	0.00	
33	3100.00	6.50	223.40	3085.13	1704.87	-194.75	-184.15	268.03	0.00	0.00	0.00	
34	3200.00	6.50	223.40	3184.49	1605.51	-202.98	-191.93	279.35	0.00	0.00	0.00	
35	3300.00	6.50	223.40	3283.84	1506.16	-211.20	-199.71	290.67	0.00	0.00	0.00	
36	3400.00	6.50	223.40	3383.20	1406.80	-219.43	-207.48	301.99	0.00	0.00	0.00	
37	3500.00	6.50	223.40	3482.56	1307.44	-227.65	-215.26	313.31	0.00	0.00	0.00	

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Loveland, CO 80537

Vertical Section calculated on an Azimuth of: 223.3978
Survey Calculation Method: Minimum Curvature
FileName: W:\Tekton Energy\Tekton Windsor Permitting\Rancho Water Valley\2-8-4 Surv.sr5

#	Depth Feet	Inc Degrees	Azimuth Degrees	TVD Feet	SubSea Feet	North Feet	East Feet	Section Feet	Dogleg /100f	BldRate /100f	Trnrate /100f	Comment
38	3600.00	6.50	223.40	3581.92	1208.08	-235.88	-223.04	324.63	0.00	0.00	0.00	
39	3700.00	6.50	223.40	3681.27	1108.73	-244.10	-230.82	335.95	0.00	0.00	0.00	
40	3800.00	6.50	223.40	3780.63	1009.37	-252.33	-238.60	347.27	0.00	0.00	0.00	
41	3900.00	6.50	223.40	3879.99	910.01	-260.55	-246.37	358.59	0.00	0.00	0.00	
42	4000.00	6.50	223.40	3979.34	810.66	-268.78	-254.15	369.91	0.00	0.00	0.00	
43	4100.00	6.50	223.40	4078.70	711.30	-277.00	-261.93	381.23	0.00	0.00	0.00	
44	4200.00	6.50	223.40	4178.06	611.94	-285.23	-269.71	392.55	0.00	0.00	0.00	
45	4300.00	6.50	223.40	4277.42	512.58	-293.45	-277.48	403.87	0.00	0.00	0.00	
46	4400.00	6.50	223.40	4376.77	413.23	-301.68	-285.26	415.19	0.00	0.00	0.00	
47	4500.00	6.50	223.40	4476.13	313.87	-309.90	-293.04	426.51	0.00	0.00	0.00	
48	4600.00	6.50	223.40	4575.49	214.51	-318.13	-300.82	437.83	0.00	0.00	0.00	
49	4700.00	6.50	223.40	4674.85	115.15	-326.36	-308.60	449.15	0.00	0.00	0.00	
50	4800.00	6.50	223.40	4774.20	15.80	-334.58	-316.37	460.47	0.00	0.00	0.00	
51	4900.00	6.50	223.40	4873.56	-83.56	-342.81	-324.15	471.79	0.00	0.00	0.00	
52	5000.00	6.50	223.40	4972.92	-182.92	-351.03	-331.93	483.11	0.00	0.00	0.00	
53	5100.00	6.50	223.40	5072.27	-282.27	-359.26	-339.71	494.43	0.00	0.00	0.00	
54	5200.00	6.50	223.40	5171.63	-381.63	-367.48	-347.48	505.76	0.00	0.00	0.00	
55	5300.00	6.50	223.40	5270.99	-480.99	-375.71	-355.26	517.08	0.00	0.00	0.00	
56	5400.00	6.50	223.40	5370.35	-580.35	-383.93	-363.04	528.40	0.00	0.00	0.00	
57	5500.00	6.50	223.40	5469.70	-679.70	-392.16	-370.82	539.72	0.00	0.00	0.00	
58	5600.00	6.50	223.40	5569.06	-779.06	-400.38	-378.59	551.04	0.00	0.00	0.00	
59	5700.00	6.50	223.40	5668.42	-878.42	-408.61	-386.37	562.36	0.00	0.00	0.00	
60	5800.00	6.50	223.40	5767.78	-977.78	-416.83	-394.15	573.68	0.00	0.00	0.00	
61	5900.00	6.50	223.40	5867.13	-1077.13	-425.06	-401.93	585.00	0.00	0.00	0.00	
62	6000.00	6.50	223.40	5966.49	-1176.49	-433.29	-409.71	596.32	0.00	0.00	0.00	
63	6100.00	6.50	223.40	6065.85	-1275.85	-441.51	-417.48	607.64	0.00	0.00	0.00	
64	6200.00	6.50	223.40	6165.21	-1375.21	-449.74	-425.26	618.96	0.00	0.00	0.00	
65	6300.00	6.50	223.40	6264.56	-1474.56	-457.96	-433.04	630.28	0.00	0.00	0.00	
66	6331.30	6.50	223.40	6295.66	-1505.66	TOD, D.G. = 2"/100' -460.54	-435.47	633.82	0.00	0.00	0.00	
67	6400.00	5.13	223.40	6364.01	-1574.01	-465.59	-440.25	640.78	2.00	2.00	0.00	
68	6500.00	3.13	223.40	6463.74	-1673.74	-470.82	-445.20	647.97	2.00	2.00	0.00	
69	6600.00	1.13	223.40	6563.67	-1773.67	-473.51	-447.75	651.68	2.00	2.00	0.00	
70	6656.30	0.00	223.40	6619.97	-1829.97	EOD, Hold 0° -473.92	-448.13	652.24	2.00	2.00	0.00	
71	6700.00	0.00	223.40	6663.67	-1873.67	-473.92	-448.13	652.24	0.00	0.00	0.00	
72	6800.00	0.00	223.40	6763.67	-1973.67	-473.92	-448.13	652.24	0.00	0.00	0.00	
Int	6806.33	0.00	0.00	6770.00	-1980.00	NBRR -473.92	-448.13	652.24	---	---	---	
74	6900.00	0.00	223.40	6863.67	-2073.67	-473.92	-448.13	652.24	0.00	0.00	0.00	

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WellName: RANCHO WATER VALLEY #2-8-4
Location: SECTION 4, T5N R67W
NORTH REFERENCE IS TRUE NORTH.

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2154 W. Eisenhower Blvd.
Loveland, CO 80537

Vertical Section calculated on an Azimuth of: 223.3978

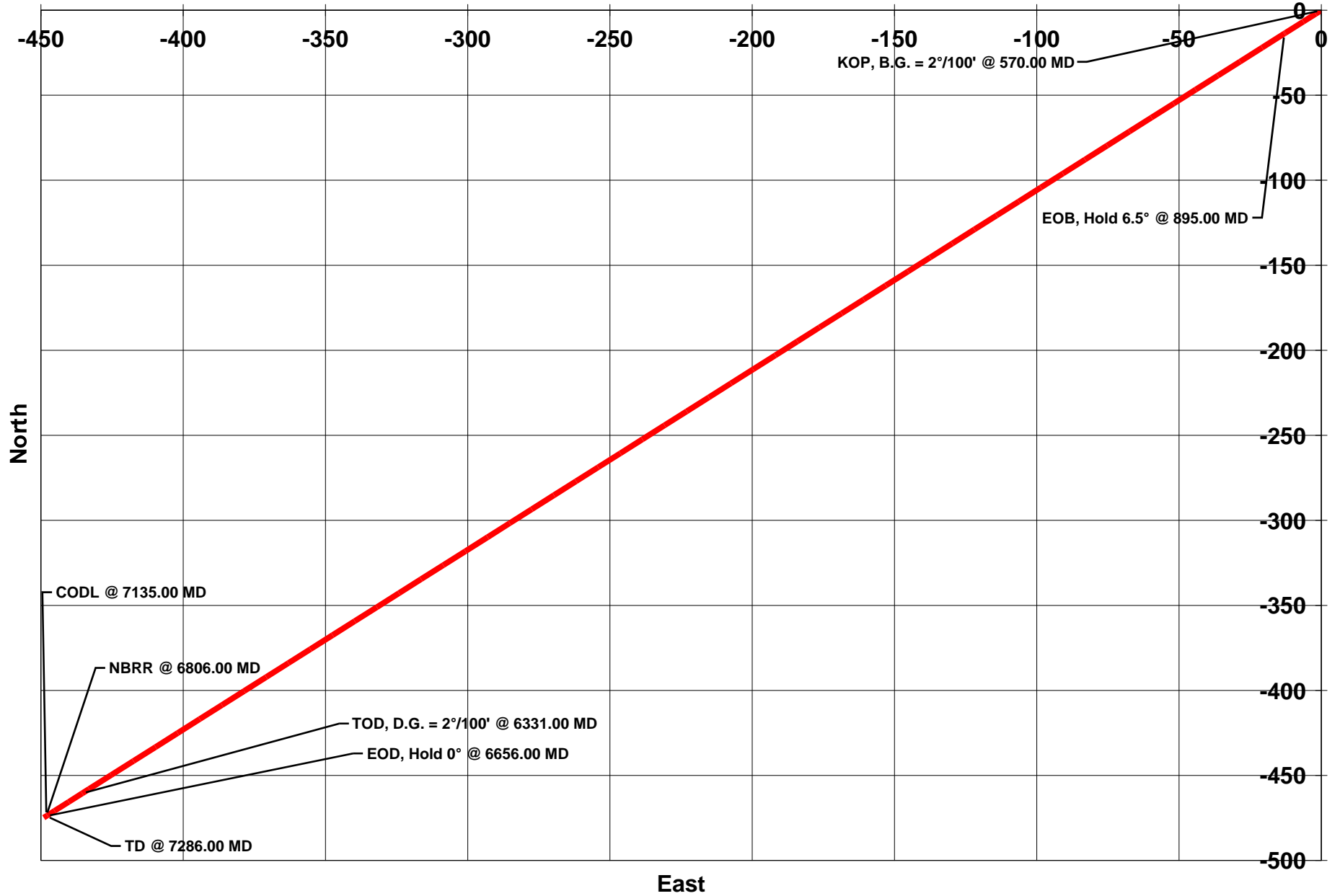
Survey Calculation Method: Minimum Curvature

FileName: W:\Tekton Energy\Tekton Windsor Permitting\Rancho Water Valley\2-8-4 Surv.sr5

#	Depth Feet	Inc Degrees	Azimuth Degrees	TVD Feet	SubSea Feet	North Feet	East Feet	Section Feet	Dogleg /100f	BldRate /100f	Trnrate /100f	Comment
75	7000.00	0.00	223.40	6963.67	-2173.67	-473.92	-448.13	652.24	0.00	0.00	0.00	
76	7100.00	0.00	223.40	7063.67	-2273.67	-473.92	-448.13	652.24	0.00	0.00	0.00	
						CODL						
Int	7135.33	0.00	0.00	7099.00	-2309.00	-473.92	-448.13	652.24	---	---	---	
78	7200.00	0.00	223.40	7163.67	-2373.67	-473.92	-448.13	652.24	0.00	0.00	0.00	
						TD						
79	7286.34	0.00	223.40	7250.01	-2460.01	-473.92	-448.13	652.24	0.00	0.00	0.00	

Closure is 652.2375 meters on an Azimuth of 223.3978

Plan View
RANCHO WATER VALLEY #2-8-4



Section View
RANCHO WATER VALLEY #2-8-4

