



Survey Report-

OPERATOR: **Tabula Rasa Energy Partners** START: **6/28/2015**
 WELL: **Caddell #3** FINISH:
 LOCATION: **Huerfano, Cty. Colorado** PROPOSED DIRECTION: **12.22**

MIN. CURVATURE CALCULATIONS

SUR NUM	MD ft	INCL. °	AZM. °	TVD ft	N-S ft	E-W ft	SECT. ft	DLS %/100 ft
Tie in-KOP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	653.00	3.40	39.10	652.62	15.03	12.22	17.28	0.52
2	751.00	4.30	40.90	750.39	20.06	16.45	23.09	0.93
3	846.00	4.60	38.50	845.11	25.74	21.16	29.63	0.37
4	941.00	5.60	37.20	939.73	32.41	26.33	37.25	1.06
5	1035.00	6.80	22.50	1033.19	41.21	31.23	46.88	2.11
6	1130.00	10.90	22.40	1127.03	54.71	36.81	61.26	4.32
7	1225.00	13.10	23.80	1219.95	72.87	44.58	80.65	2.34
8	1319.00	16.10	24.00	1310.91	94.53	54.18	103.85	3.19
9	1414.00	18.90	24.70	1401.50	120.54	65.97	131.78	2.96
10	1508.00	21.10	24.20	1489.83	149.81	79.27	163.20	2.35
11	1603.00	24.30	24.10	1577.46	183.26	94.27	199.06	3.37
12	1698.00	26.90	19.90	1663.13	221.32	109.57	239.50	3.34
13	1792.00	29.00	16.30	1746.17	263.19	123.20	283.31	2.86
14	1887.00	29.20	14.90	1829.18	307.69	135.62	329.43	0.75
15	1982.00	29.60	15.70	1911.94	352.67	147.93	375.99	0.59
16	2077.00	27.30	16.30	1995.46	396.18	160.40	421.15	2.44
17	2172.00	29.60	16.50	2078.99	439.59	173.18	466.28	2.42
18	2266.00	30.50	17.50	2160.35	484.60	186.94	513.19	1.10
19	2361.00	31.10	18.30	2241.95	530.89	201.90	561.59	0.76
20	2456.00	31.20	15.80	2323.26	577.86	216.30	610.55	1.37
21	2551.00	30.40	15.10	2404.86	624.74	229.26	659.12	0.92
22	2645.00	31.60	13.10	2485.43	671.70	241.04	707.50	1.68
23	2740.00	29.60	15.50	2567.20	718.55	252.95	755.81	2.47
24	2835.00	29.90	15.00	2649.68	764.03	265.35	802.89	0.41
25	2930.00	30.90	18.10	2731.62	810.09	279.06	850.81	1.96
26	3024.00	29.80	14.00	2812.75	855.71	292.21	898.17	2.49
27	3118.00	28.00	18.50	2895.05	899.30	304.87	943.46	3.00
28	3213.00	30.50	17.00	2977.93	943.51	318.99	989.66	2.74
29	3307.00	32.20	13.90	3058.21	990.64	331.99	1038.47	2.49
30	3402.00	31.30	14.10	3138.99	1039.15	344.08	1088.43	0.95
31	3497.00	30.40	14.50	3220.55	1086.36	356.11	1137.12	0.97
32	3591.00	30.90	15.90	3301.42	1132.60	368.68	1184.97	0.93
33	3686.00	28.80	10.80	3383.82	1178.55	379.65	1232.20	3.47
34	3780.00	28.80	12.00	3466.20	1222.94	388.60	1277.48	0.61
35	3874.00	26.40	16.80	3549.51	1265.10	399.35	1320.97	3.48
36	3968.00	25.90	19.20	3633.89	1304.50	412.14	1362.18	1.24
37	4063.00	24.20	18.60	3719.95	1342.55	425.18	1402.12	1.81
38	4157.00	24.30	18.00	3805.65	1379.20	437.30	1440.51	0.28
39	4252.00	22.20	21.00	3892.94	1414.55	449.77	1477.70	2.54
40	4346.00	22.00	21.60	3980.03	1447.50	462.62	1512.63	0.32
41	4440.00	22.60	14.80	4067.01	1481.34	473.72	1548.05	2.82

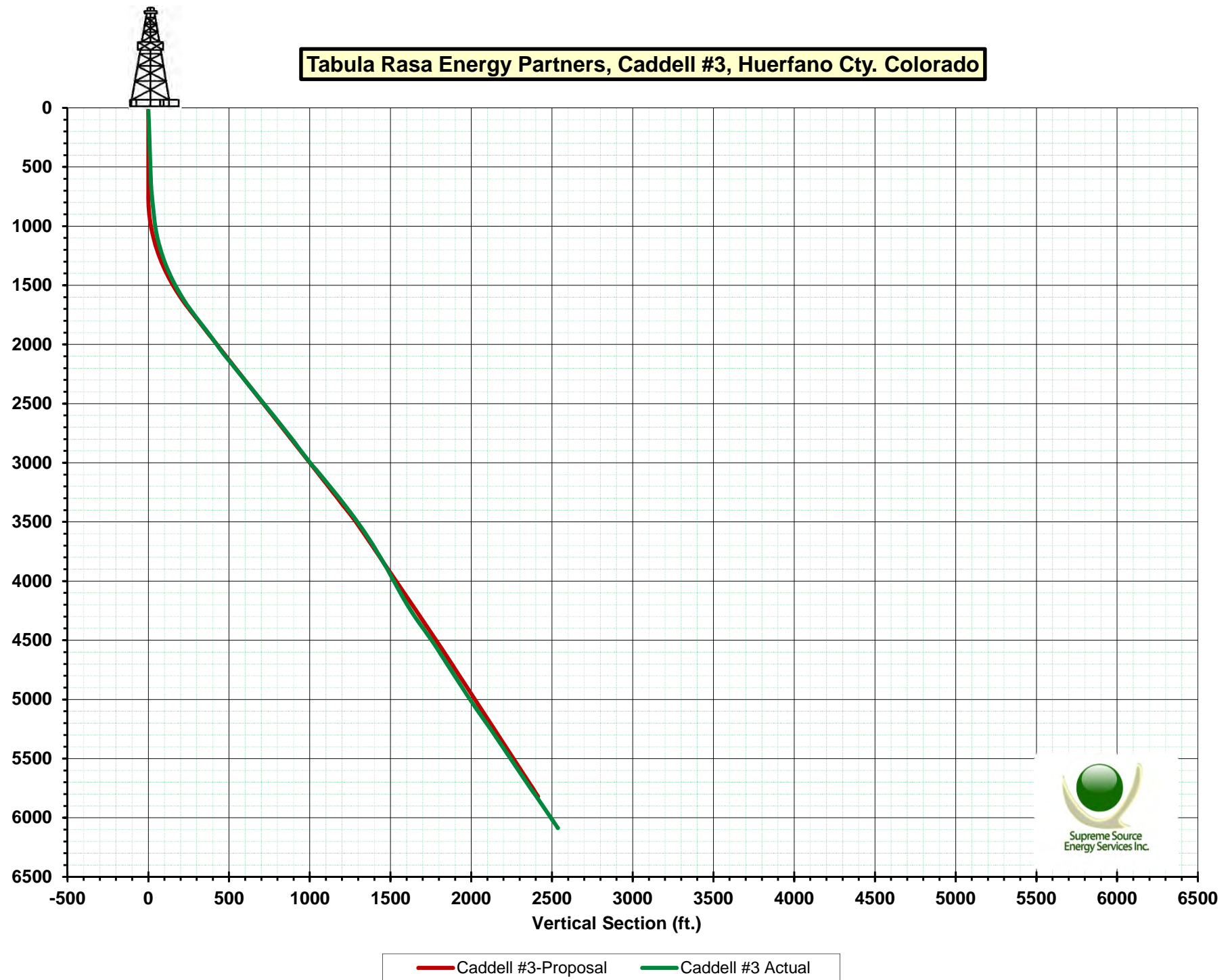


Survey Report-

OPERATOR: Tabula Rasa Energy Partners **START:** 6/28/2015
WELL: Caddell #3 **FINISH:**
LOCATION: Huerfano, Cty. Colorado **PROPOSED DIRECTION:** 12.22

MIN. CURVATURE CALCULATIONS

SUR NUM	MD ft	INCL. °	AZM. °	TVD ft	N-S ft	E-W ft	SECT. ft	DLS %/100 ft
42	4535.00	22.10	9.50	4154.89	1516.62	481.33	1584.14	2.19
43	4629.00	26.00	7.10	4240.71	1554.52	486.80	1622.34	4.28
44	4723.00	26.20	14.90	4325.15	1595.03	494.68	1663.60	3.65
45	4818.00	28.50	15.40	4409.53	1637.15	506.10	1707.18	2.43
46	4912.00	26.80	13.30	4492.79	1679.40	516.93	1750.77	2.08
47	5007.00	25.50	10.00	4578.07	1720.39	525.41	1792.62	2.05
48	5102.00	24.90	3.10	4664.05	1760.50	530.04	1832.81	3.15
49	5196.00	27.30	355.80	4748.48	1801.78	529.53	1873.04	4.26
50	5290.00	25.60	355.20	4832.63	1843.52	526.25	1913.14	1.83
51	5384.00	26.50	354.50	4917.08	1884.63	522.54	1952.53	1.01
52	5479.00	26.80	353.80	5001.99	1927.02	518.20	1993.04	0.46
53	5574.00	28.60	355.00	5086.10	1970.97	513.90	2035.08	1.98
54	5669.00	28.30	355.00	5169.63	2016.05	509.96	2078.31	0.32
55	5763.00	28.00	353.90	5252.51	2060.19	505.67	2120.54	0.64
56	5858.00	27.80	353.40	5336.47	2104.37	500.76	2162.68	0.32
57	5953.00	27.50	353.60	5420.62	2148.17	495.77	2204.44	0.33
58	6047.00	27.50	352.40	5504.00	2191.25	490.48	2245.42	0.59
59	6141.00	28.10	349.40	5587.15	2234.52	483.53	2286.24	1.62
60	6236.00	28.60	346.40	5670.76	2278.62	474.07	2327.33	1.59
61	6331.00	29.30	350.50	5753.90	2323.65	464.89	2369.40	2.21
62	6415.00	28.40	349.70	5827.47	2363.58	457.92	2406.95	1.17
Prj to current TD	6460.00	28.40	349.70	5867.06	2384.64	454.09	2426.72	0.00
Prj to TD Extension	6710.00	28.40	349.70	6086.97	2501.63	432.83	2536.56	0.00





Tabula Rasa Energy Partners, Caddell #3, Huerfano Cty. Colorado

