



### Minimun Curvature Calculation

**Client:** CARTEL 15

**MWD Operators:** LOUIE ISAIS

**Well:** AD FED J EVANS # 20W-25-5

**Directional Drillers:** BRENT LABORDE

**County:** WELD

**Correction to True North:** 7.97

**Rig:** CARTEL 15

**RKB:**

14.7

**Job #:** KES0405192-5

**VS Azimuth:** 274.59

**API#:** 05-123-45038

		INC	AZM	TVD	+N/-S	+E/-W	VS	DLS
		0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	110	0.48	338.00	110.00	0.43	-0.17	0.21	0.44
248	198	0.62	14.21	197.99	1.23	-0.19	0.29	0.42
335	285	0.44	7.62	284.99	2.02	-0.03	0.20	0.22
422	372	1.23	17.56	371.98	3.24	0.29	-0.03	0.92
510	460	0.31	202.33	459.98	3.92	0.49	-0.17	1.75
597	547	0.22	225.59	546.97	3.59	0.28	0.01	0.16
684	634	0.79	252.66	633.97	3.29	-0.41	0.68	0.69
772	722	0.75	228.40	721.96	2.73	-1.42	1.64	0.37
859	809	0.44	198.34	808.96	2.03	-1.95	2.11	0.49
946	896	1.41	64.66	895.95	2.17	-1.09	1.26	2.00
1033	983	0.40	40.05	982.94	2.86	0.07	0.16	1.22
1121	1071	0.35	318.05	1070.94	3.30	0.09	0.18	0.56
1208	1158	1.32	291.51	1157.93	3.86	-1.02	1.33	1.17
1295	1245	1.58	323.59	1244.90	5.20	-2.67	3.07	0.96
1382	1332	2.94	342.48	1331.83	8.29	-4.05	4.70	1.76
1470	1420	4.48	341.95	1419.65	13.71	-5.79	6.87	1.75
1557	1507	7.87	344.24	1506.13	22.67	-8.47	10.25	3.91
1617	1567	9.32	344.94	1565.45	31.32	-10.84	13.31	2.42
PTB	1617	10.02	344.94	1614.74	39.43	-13.03	16.14	1.40







