



### Minimun Curvature Calculation

**Client:** CARTEL 15

**MWD Operators:** LOUIE ISAIS

**Well:** AD FED DOUBLE CLUTCH # 20W-25-7

**Directional Drillers:** BRENT LABORDE

**County:** WELD

**Correction to True North:** 7.97

**Rig:** CARTEL 15

**RKB:**

14.7

**Job #:** KES0405192-7

**VS Azimuth:** 272.65

**API#:** 05-123-45036

		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	0.62	235.96	110.00	-0.33	-0.49	0.48	0.56
248	198	0.53	214.69	197.99	-0.93	-1.12	1.07	0.26
335	285	0.26	236.31	284.99	-1.37	-1.51	1.45	0.35
422	372	0.83	195.09	371.99	-2.09	-1.84	1.74	0.76
510	460	1.23	227.96	459.97	-3.34	-2.71	2.55	0.79
597	547	0.62	333.34	546.97	-3.55	-3.61	3.45	1.74
684	634	0.48	353.29	633.96	-2.76	-3.87	3.73	0.27
772	722	1.01	13.68	721.95	-1.64	-3.73	3.65	0.66
859	809	1.58	13.33	808.93	0.27	-3.27	3.28	0.66
946	896	1.05	74.77	895.91	1.65	-2.22	2.30	1.63
1033	983	1.36	82.68	982.89	1.99	-0.43	0.52	0.40
1121	1071	1.58	101.31	1070.86	1.88	1.80	-1.71	0.59
1208	1158	1.01	174.52	1157.85	0.88	3.05	-3.00	1.85
1295	1245	0.66	192.63	1244.84	-0.37	3.01	-3.02	0.50
1382	1332	1.05	241.58	1331.83	-1.24	2.20	-2.25	0.91
1470	1420	1.10	226.38	1419.81	-2.20	0.88	-0.98	0.33
1557	1507	0.53	162.92	1506.81	-3.16	0.39	-0.54	1.13
1569	1519	0.53	154.75	1518.81	-3.27	0.43	-0.58	0.63
PTB	1569	0.53	154.75	1568.80	-3.69	0.63	-0.80	0.00







