



**PROJECT DETAILS:** Weld County, CO (NAD83)  
**Geodetic System:** US State Plane 1983  
**Datum:** North American Datum 1983  
**Ellipsoid:** GRS 1980  
**Zone:** Colorado Northern Zone  
**System Datum:** Ground Level  
**Local North:** True

**WELL DETAILS:** Livingston S19-25-02C

**Ground Elevation::** 5316.60

**RKB Elevation:** KB @ 5345.60usft (Patterson 901)

**Rig Name:** Patterson 901

Northing	Easting	Latitude	Longitude
1235372.53	3128894.33	39.978564	-105.040058

ANNOTATIONS								
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation
1586.00	25.93	282.86	1536.54	75.95	-307.72	-1.68	320.59	Tie into Surface Surveys
1705.00	25.36	283.30	1643.81	87.61	-357.89	-1.24	372.09	First MWD Survey @ 1705' MD
8648.60	29.74	190.65	7995.35	635.00	-2915.64	66.40	3051.30	30° Inclination @ 8648.60' MD
9059.62	70.00	178.89	8259.04	330.76	-2915.37	362.10	3354.41	70° Inclination @ 9059.62' MD
11737.30	89.13	176.68	8302.40	-2338.00	-2873.83	2946.71	6027.24	Cross @ 11737.30' MD
17005.11	89.75	181.71	8312.08	-7603.00	-2907.65	8072.83	11294.88	Cross @ 17005.11' MD
21746.00	91.47	183.27	8353.06	-12339.26	-2981.43	12694.34	16034.80	Last MWD Survey @ 21746' MD
21773.00	91.47	183.27	8352.36	-12366.21	-2982.97	12720.89	16061.79	Projection to TD @ 21773' MD 516' FSL/ 618' FWL

SHL/ 2332' FSL & 1510' FEL  
LP/ 2473' FSL & 673' FWL  
BHL/ 460' FSL & 640' FWL  
Ground Elevation 5316.6'

