



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 S19-25-07N

Ground Elevation:: 5320.50
RKB Elevation: KB @ 5349.50usft (Patterson 901)
Rig Name: Patterson 901

Northing	Easting	Latitude	Longitude
1235372.27	3128984.29	39.978562	-105.039737

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
1588.00	15.23	296.04	1576.11	52.90	-111.11	-40.31	132.55	Tie into Surface Surveys
1670.00	15.69	295.95	1655.15	62.48	-130.76	-47.66	154.40	First MWD Survey @ 1670' MD
7937.31	30.00	179.68	7738.73	612.87	-1349.57	-460.14	1620.36	30° Inclination @ 7937.31' MD
8422.51	70.00	180.12	8036.85	242.21	-1359.17	-90.68	1990.29	70° Inclination @ 8422.51' MD
11003.49	89.83	180.36	8066.57	-2334.00	-1373.33	2471.35	4566.80	Cross @ 11003.49' MD
16271.81	90.55	178.95	8083.06	-7601.00	-1361.74	7704.87	9835.05	Cross @ 16271.81' MD
20989.00	91.38	179.74	8165.90	-12314.74	-1373.40	12391.09	14550.87	Last MWD Survey @ 20989' MD
21037.00	91.38	179.74	8164.75	-12362.73	-1373.18	12438.75	14598.86	Projection to TD @ 21037' MD 511.5' FSL/ 2317' FWL

SHL/ 2332' FSL & 1420' FEL
LP/ 2443' FSL & 2324' FWL
BHL/ 460' FSL & 1181' FWL
Ground Elevation 5320.5'

