



Extraction Oil & Gas
Project: Weld County, CO (NAD83)
Site: Sec 07-T01S-R68W Livingston Pad
Well: Livingston S19-25-05C
Wellbore: Wellbore #1
Design: Wellbore #1 (Livingston S19-25-05C/Wellbore #1)
Patterson 901

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 S19-25-05C

Ground Elevation:: 5319.10
RKB Elevation: KB @ 5348.10usft (Patterson 901)
Rig Name: Patterson 901

| Northing | Easting | Latitude | Longitude |
|------------|------------|-----------|-------------|
| 1235372.44 | 3128948.42 | 39.978563 | -105.039865 |

ANNOTATIONS

| MD | Inc | Azi | TVD | +N/-S | +E/-W | VSect | Departure | Annotation |
|----------|-------|--------|---------|-----------|----------|----------|-----------|--|
| 1579.00 | 19.25 | 287.51 | 1556.21 | 63.16 | -177.74 | -33.80 | 196.85 | Tie into Surface Surveys |
| 1670.00 | 19.40 | 288.54 | 1642.09 | 72.48 | -206.38 | -38.40 | 226.97 | First MWD Survey @ 1670' MD |
| 8348.80 | 30.00 | 175.73 | 7998.80 | 609.82 | -1982.45 | -283.61 | 2209.44 | 30° Inclination @ 8348.80' MD |
| 8777.09 | 70.00 | 179.51 | 8269.84 | 289.96 | -1988.80 | 33.11 | 2529.79 | 70° Inclination @ 8777.09' MD |
| 11407.34 | 90.81 | 179.91 | 8315.70 | -2335.50 | -1970.37 | 2621.55 | 5155.26 | Cross @ 11407.34' MD |
| 16676.85 | 89.88 | 186.01 | 8341.15 | -7602.00 | -2021.11 | 7827.88 | 10424.09 | Cross @ 16676.85' MD |
| 21396.00 | 91.03 | 181.55 | 8365.49 | -12317.88 | -2011.99 | 12481.11 | 15142.44 | Last MWD Survey @ 21396' MD |
| 21457.00 | 91.03 | 181.55 | 8364.39 | -12378.85 | -2013.63 | 12541.55 | 15203.43 | Projection to TD @ 21457' MD 499' FSL/ 1640' FWL |

SHL/ 2332' FSL & 1456' FEL
LP/ 2455' FSL & 1664' FWL
BHL/ 460' FSL & 1631' FWL
Ground Elevation 5319.1'

