



Extraction Oil & Gas
Project: Weld County, CO (NAD83)
Site: Sec 07-T01S-R68W Livingston Pad
Well: Livingston S19-25-09N
Wellbore: Wellbore #1
Design: Wellbore #1 (Livingston S19-25-09N/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 S19-25-09N

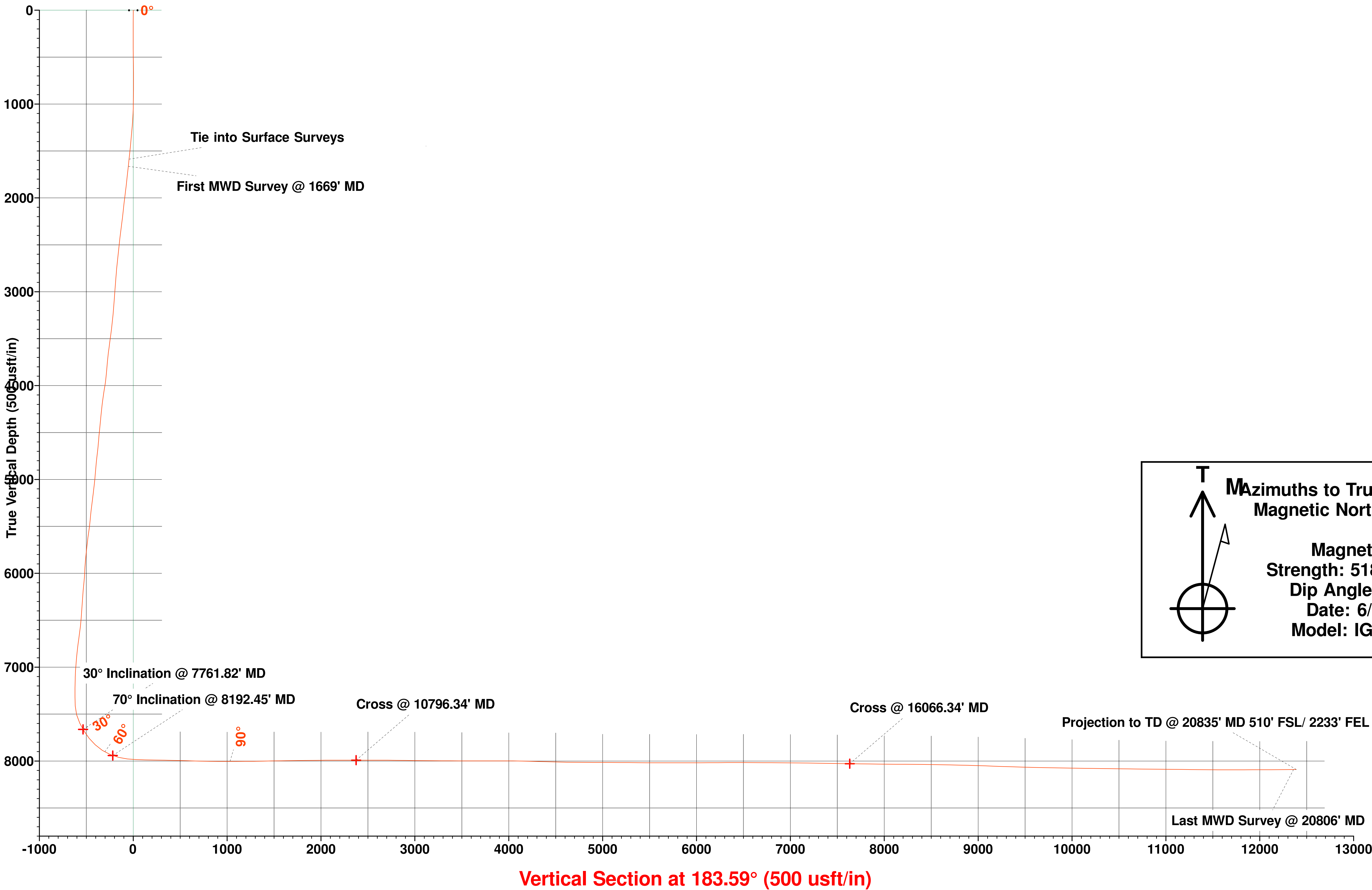
Ground Elevation:: 5322.00
RKB Elevation: KB @ 5351.00usft (Patterson 901)
Rig Name: Patterson 901

Northing	Easting	Latitude	Longitude
1235372.44	3129020.44	39.978562	-105.039608

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation
1592.00	8.53	318.54	1587.16	47.70	-55.06	-44.16	85.43	Tie into Surface Surveys
1669.00	8.57	320.41	1663.30	56.40	-62.50	-52.38	96.88	First MWD Survey @ 1669' MD
7761.82	30.00	181.75	7663.06	581.43	-734.99	-534.31	1099.19	30° Inclination @ 7761.82' MD
8192.45	70.00	179.60	7941.65	264.94	-734.51	-218.47	1415.60	70° Inclination @ 8192.45' MD
10796.34	90.13	180.05	7991.15	-2332.00	-747.61	2374.20	4013.93	Cross @ 10796.34' MD
16066.34	89.21	182.06	8028.91	-7600.00	-765.45	7632.99	9283.59	Cross @ 16066.34' MD
20806.00	90.54	176.70	8090.81	-12336.04	-776.63	12360.46	14022.56	Last MWD Survey @ 20806' MD
20835.00	90.54	176.70	8090.54	-12364.99	-774.96	12389.25	14051.55	Projection to TD @ 20835' MD 510' FSL/ 2233' FEL

SHL/ 2331' FSL & 1384' FEL
LP/ 2452' FSL & 2109' FEL
BHL/ 460' FSL & 2234' FEL
Ground Elevation 5322'



Mazimuths to True North
Magnetic North: 8.10°
Magnetic Field
Strength: 51868.6nT
Dip Angle: 66.42°
Date: 6/28/2019
Model: IGRF2015

