



Extraction Oil & Gas
Project: Weld County, CO (NAD83)
Site: Sec 07-T01S-R68W Livingston Pad
Well: Livingston S19-25-04N
Wellbore: Wellbore #1
Design: Wellbore #1 (Livingston S19-25-04N/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 S19-25-04N

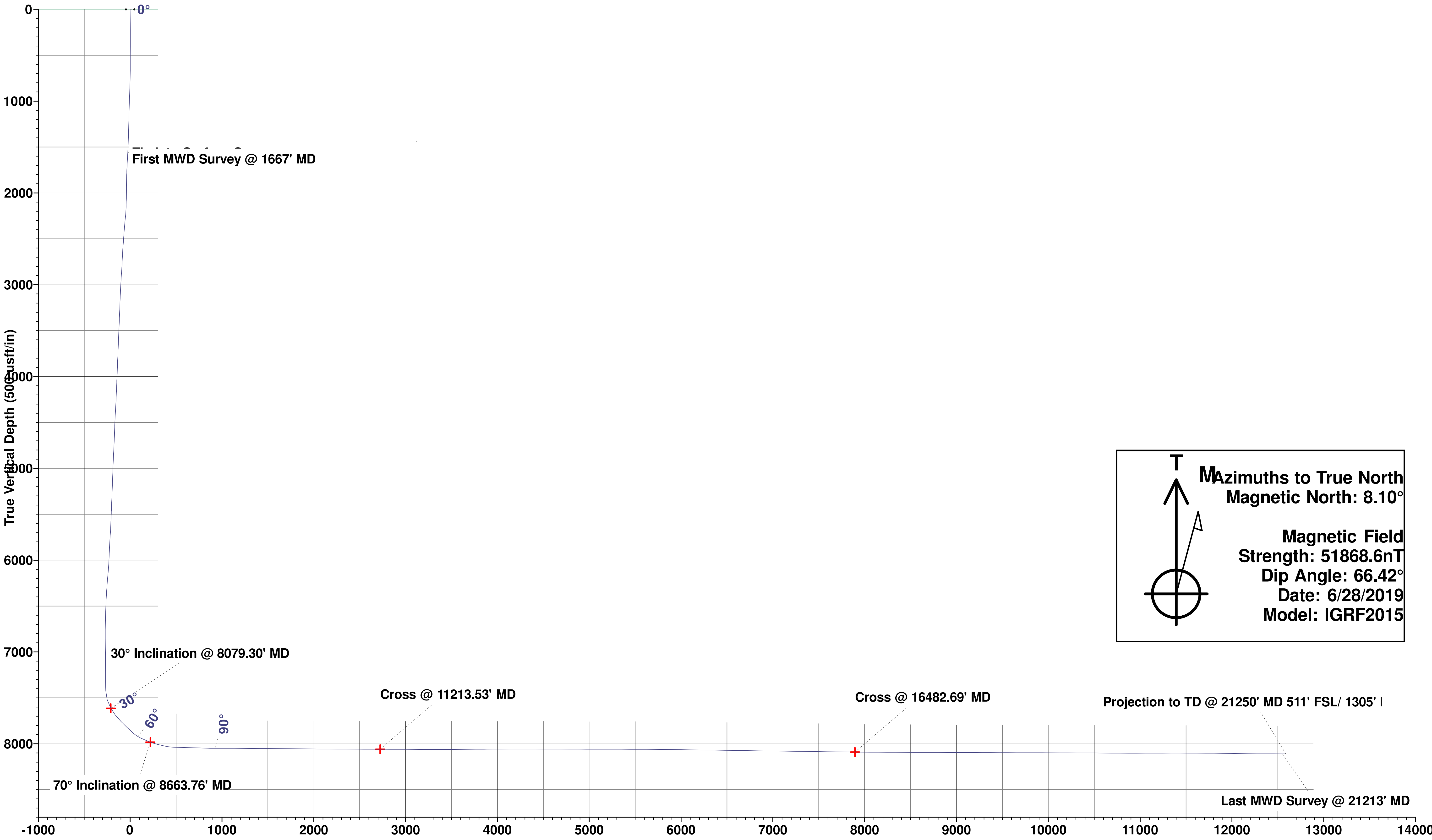
Ground Elevation:: 5318.40
RKB Elevation: KB @ 5347.40usft (Patterson 901)
Rig Name: Patterson 901

Northing	Easting	Latitude	Longitude
1235372.35	3128930.48	39.978563	-105.039929

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation
1590.00	22.63	287.69	1558.22	67.90	-223.89	-25.24	239.97	Tie into Surface Surveys
1667.00	22.93	288.72	1629.22	77.21	-252.21	-29.15	269.79	First MWD Survey @ 1667' MD
8079.30	29.99	176.62	7613.30	643.59	-2280.33	-209.97	2464.37	30° Inclination @ 8079.30' MD
8663.76	70.00	177.05	7982.25	205.24	-2274.77	219.76	2902.85	70° Inclination @ 8663.76' MD
11213.53	89.80	180.86	8059.96	-2336.00	-2306.33	2722.85	5445.40	Cross @ 11213.53' MD
16482.69	89.68	179.53	8090.70	-7602.00	-2290.94	7894.84	10714.33	Cross @ 16482.69' MD
21213.00	89.84	180.62	8110.14	-12331.79	-2331.56	12550.26	15444.56	Last MWD Survey @ 21213' MD
21250.00	89.84	180.62	8110.24	-12368.79	-2331.96	12586.69	15481.56	Projection to TD @ 21250' MD 511' FSL/ 1305' FWL

SHL/ 2332' FSL & 1474' FEL
LP/ 2461' FSL & 1333' FWL
BHL/ 460' FSL & 1301' FWL
Ground Elevation 5318.4'



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Mazimuths to True North
Magnetic North: 8.10°

Magnetic Field
Strength: 51868.6nT
Dip Angle: 66.42°
Date: 6/28/2019
Model: IGRF2015

