



Extraction Oil & Gas
Project: Weld County, CO (NAD83)
Site: Sec 09-T05N-R65W Ash Pad
Well: MT Fed Heath 8W-20-12
Wellbore: Wellbore #1
Design: Wellbore #1 (MT Fed Heath 8W-20-12/Wellbore #1)
Patterson 340

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

SHL/ 1004' FNL & 1753' FWL
KOP/ 5375' FWL & 2901' FSL
LP/ 2371' FNL & 460' FEL
BHL/460' FWL & 2634' FNL

Ground Elevation= 4635'

WELL DETAILS: MT Fed Heath 8W-20-12

Ground Elevation:: 4635.00
RKB Elevation: kb @ 4660.00usft (Patterson 340)
Rig Name: Patterson 340

Northing	Easting	Latitude	Longitude
1396220.47	3230636.42	40.418070	-104.671660



ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation
1529.00	2.11	257.72	1528.83	-0.29	-1.31	1.33	22.12	Tie into Surface Surveys
1658.00	3.31	247.40	1657.68	-2.23	-7.07	7.22	28.22	First MWD Survey @ 1658' MD
7163.54	30.00	274.96	6581.61	-1335.97	-1739.66	1838.27	2244.37	30° Inclin @ 7163.54' MD
7192.45	32.16	275.27	6606.38	-1334.60	-1754.50	1852.96	2258.62	Cross @ 7192.45' MD
7631.10	69.99	272.98	6875.60	-1315.56	-2090.99	2186.95	2596.09	70° Inclin @ 7631.10' MD
12569.74	90.24	271.07	6939.81	-1124.19	-7019.00	7085.16	7528.30	Cross @ 12569.74' MD
17266.00	90.37	269.52	6931.91	-920.13	-11709.60	11745.69	12224.22	Last MWD Survey @ 17266' MD
17365.00	90.37	269.52	6931.27	-920.96	-11808.59	11844.45	12323.22	Projection to TD @ 17365' MD 2658' FNL/ 508' FWL

