



Project: WELD COUNTY, CO
Site: WINDER SOUTH PAD
Well: WINDER SOUTH 10
Wellbore: WINDER SOUTH 10
Design: WINDER SOUTH 10
Latitude: 40° 30' 9.619 N
Longitude: 104° 53' 24.446 W
GL: 4854.00
KB: WELL @ 4879.00ft (Patterson 346)



WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
LP WINDER SOUTH 10 P2	7058.00	-2466.90	-205.55	1424078.88	3169409.62	40° 29' 45.242 N	104° 53' 27.107 W
PBHL WINDER SOUTH 10	7058.00	-2453.51	-9671.00	1424027.17	3159944.32	40° 29' 45.355 N	104° 55' 29.630 W

WELL DETAILS: WINDER SOUTH 10

+N/-S	+E/-W	Northing	Ground Level:	4854.00	Longitude	Slot
0.00	0.00	1426547.13	Easting	3169598.20	40° 30' 9.619 N	104° 53' 24.446 W

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
1530.00	5.40	168.00	1521.79	-141.97	19.66	0.00	0.00	15.86	Tie On Start 239.00 Hold
1769.00	5.40	168.00	1759.73	-163.97	24.34	0.00	0.00	16.73	Start DLS 2.50 TFO 7.10
2834.40	32.00	174.00	2759.89	-499.82	65.00	2.50	7.10	59.90	Start 3073.23 hold at 2834.40 MD
5907.63	32.00	174.00	5366.14	-2119.46	235.23	0.00	0.00	293.18	Start Drop -2.50
7187.63	0.00	0.00	6580.63	-2465.80	271.63	2.50	180.00	343.07	Start DLS 12.00 TFO 270.07
7937.64	90.00	270.07	7058.09	-2465.21	-205.84	12.00	270.07	805.73	Start 9465.17 hold at 7937.64 MD
17402.81	90.00	270.07	7058.00	-2453.51	-9671.00	0.00	0.00	9977.37	TD at 17402.81

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3580.00	3801.45	PARKMAN
4140.00	4461.79	SUSSEX
4700.00	5122.13	SHANNON
6905.00	7544.25	SHARON SPRINGS
6951.00	7611.54	NIOBRARA
7058.00	7928.16	NIO B TARGET



Azimuths to True North
Magnetic North: 8.36°

Magnetic Field
Strength: 52509.2snT
Dip Angle: 66.93°
Date: 10/13/2016
Model: IGRF2015

PROJECT DETAILS: WELD COUNTY, CO

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Colorado Northern Zone
System Datum: Mean Sea Level

Survey: Survey #2 (WINDER SOUTH 10/WINDER SOUTH 10)

Created By: TRACY WILLIAMS Date: 13:39, December 12 2016

