



Project: WELD COUNTY, CO
Site: WINDER SOUTH PAD
Well: WINDER SOUTH 6
Wellbore: WINDER SOUTH 6
Design: WINDER SOUTH 6
Latitude: 40° 30' 9.623 N
Longitude: 104° 53' 25.480 W
GL: 4855.00
KB: WELL @ 4880.00ft (Patterson 346)



WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
LP WINDER SOUTH 6	7130.00	-1490.36	-75.00	1425056.11	3169453.63	40° 29' 54.895 N	104° 53' 26.450 W
PBHL WINDER SOUTH 6	7130.00	-1463.73	-9590.47	1425017.33	3159938.22	40° 29' 55.140 N	104° 55' 29.626 W

WELL DETAILS: WINDER SOUTH 6

+N/-S	+E/-W	Northing	Ground Level:	4855.00	Latitude	Longitude	Slot
0.00	0.00	1426546.95	Easting	3169518.38	40° 30' 9.623 N	104° 53' 25.480 W	

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSEct	Annotation
1534.00	4.90	162.30	1532.39	-37.80	17.35	0.00	0.00	-11.45	Start 200.00 hold at 1534.00 MD
1734.00	4.90	162.30	1731.66	-54.07	22.55	0.00	0.00	-14.13	Start DLS 2.00 TFO -18.66
2197.51	14.00	150.00	2188.44	-121.63	56.67	2.00	-18.66	-37.67	Start 200.00 hold at 2197.51 MD
2397.51	14.00	150.00	2382.49	-163.53	80.86	0.00	0.00	-55.27	Start DLS 2.00 TFO 93.88
2494.20	14.00	158.00	2476.32	-184.51	91.10	2.00	93.88	-62.21	Start 3000.01 hold at 2494.20 MD
5494.21	14.00	158.00	5387.22	-857.43	362.97	0.00	0.00	-229.45	Start DLS 3.79 TFO 48.55
5714.35	20.48	176.11	5597.50	-920.65	375.58	3.79	48.55	-232.38	Start 1146.49 hold at 5714.35 MD
6860.84	20.48	176.11	6671.52	-1320.88	402.80	0.00	0.00	-198.90	Start DLS 12.00 TFO 93.80
7622.64	90.00	270.16	7130.00	-1490.36	-75.00	12.00	93.80	299.00	Start 9515.51 hold at 7622.64 MD
17138.15	90.00	270.16	7130.00	-1463.73	-9590.47	0.00	0.00	9701.53	TD at 17138.15

FORMATION TOP DETAILS

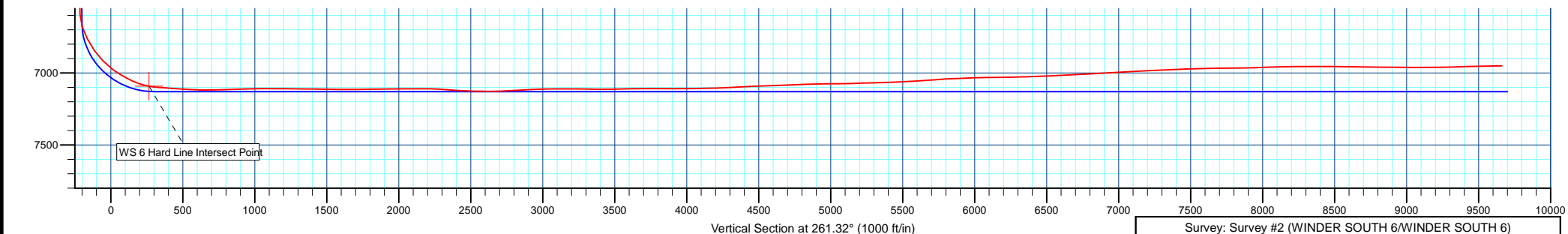
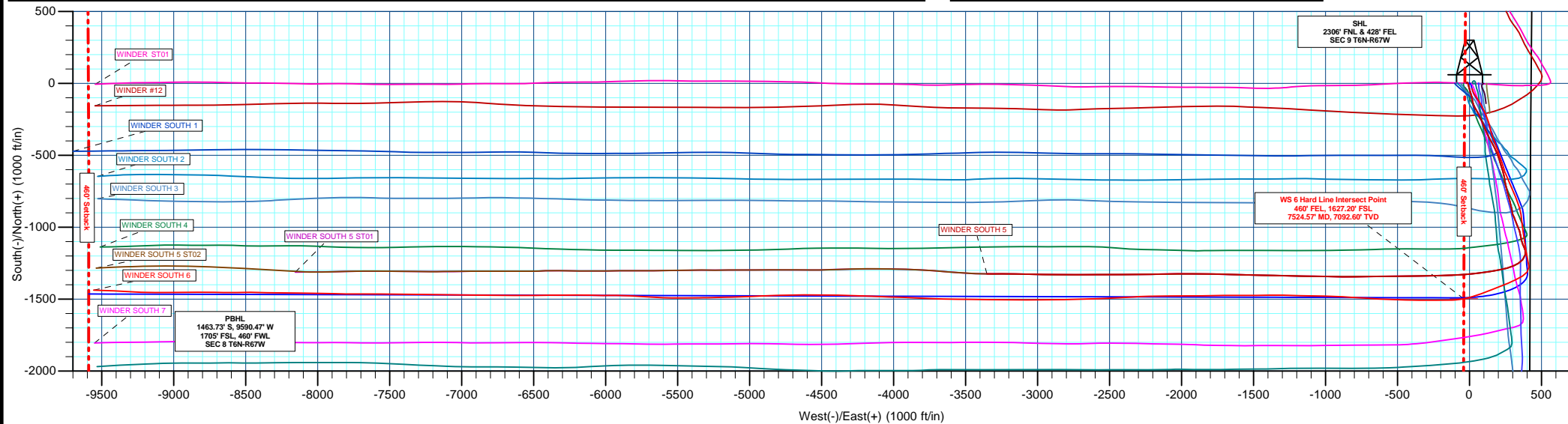
TVDPath	MDPath	Formation
3580.00	3631.67	PARKMAN
4140.00	4208.81	SUSSEX
4700.00	4785.96	SHANNON
6905.00	7121.05	SHARON SPRINGS
6951.00	7179.85	NIORARA
7058.00	7348.00	NIO B TARGET

Azimuths to True North
Magnetic North: 8.37°

Magnetic Field
Strength: 52516.4snT
Dip Angle: 66.94°
Date: 09/20/2016
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 6/WINDER SOUTH 6)

Created By: TRACY WILLIAMS Date: 12:50, January 06 2017