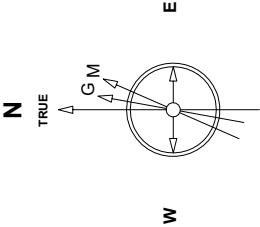


Great Western Operating Company, LLC

Created by	mmount
Date plotted	25-Nov-2020
Plot reference is Tower LD 19-259HC (AWB).	
Ref wellpath is Tower LD 19-259HC (AWP#1).	
Coordinates are in Feet reference S12 - Tower LD 19-259HC.	
True Vertical Depths are reference Rig Datum.	
Measured Depths are reference Rig Datum.	
Rig Datum: Actual Datum #1	
Rig Datum to Mean Sea Level 5244.00 ft.	
Plot North is aligned to TRUE North.	

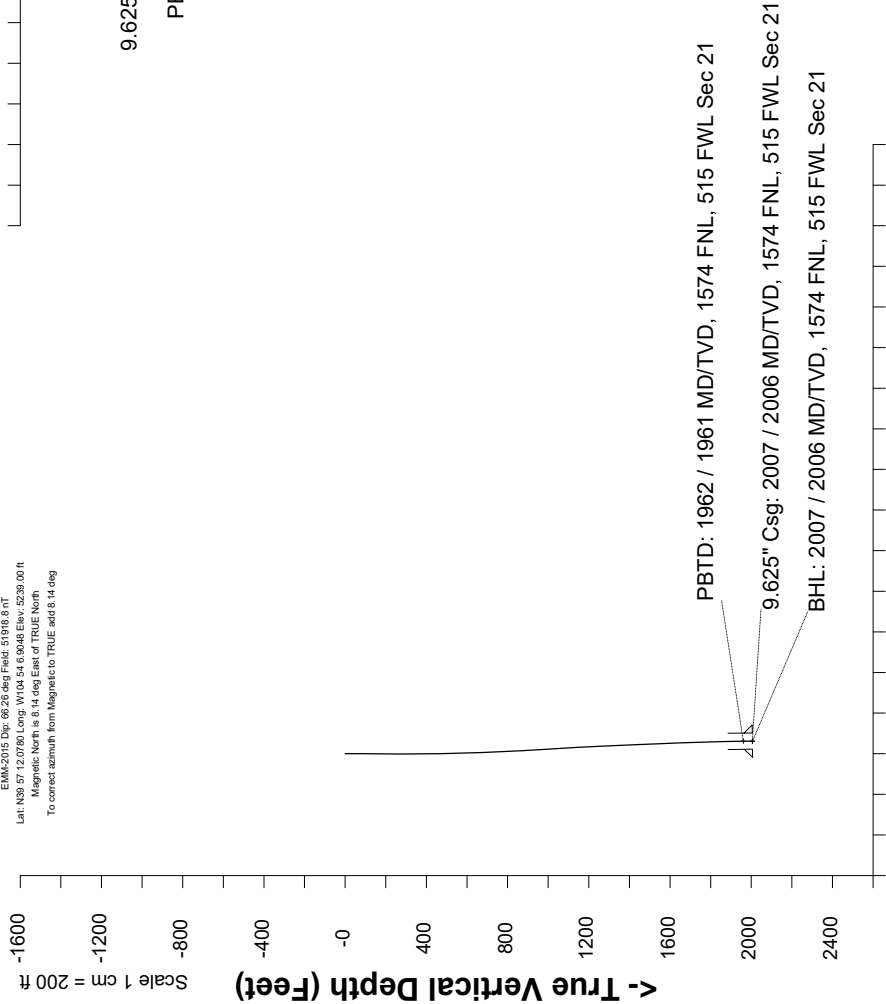
Location	Colorado	Slot	S12 - Tower LD 19-259HC
Field	Wattenburg	Well	Tower LD 19-259HC
Installation	Tower	Wellbore	Tower LD 19-259HC (AWB)



Feb-13-2019
EMM2015 Dip: 69.26 deg Field: 51918.8 nT
Lat: N39 57 12.0760 Long: W104 54 6.9048 Elev: 5239.00 ft
Magnetic North is 8.14 deg East of TRUE North.
To correct azimuth from Magnetic to TRUE add 8.14 deg

Scale 1 cm = 4 ft

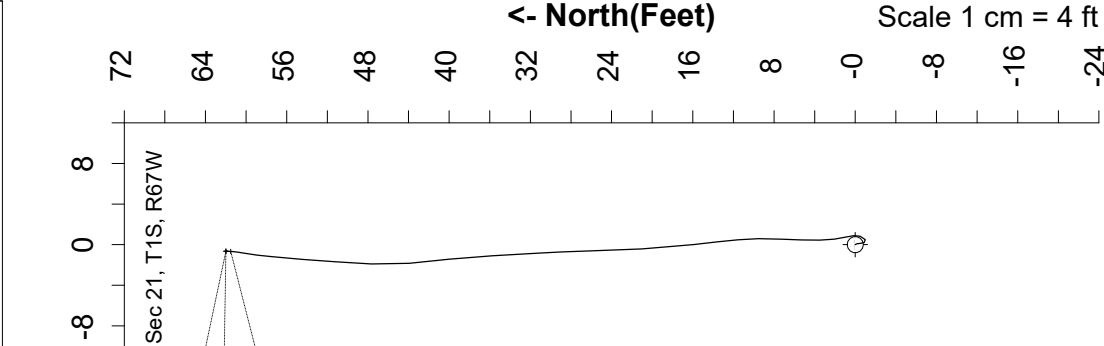
East (Feet) ->



Scale 1 cm = 200 ft

Vertical Section (Feet) ->

Azimuth 359.41 with reference 0.00 N, 0.00 E from S12 - Tower LD 19-259HC



Great Western Operating Co, LLC
 Directional Survey Report
 Wellpath: Tower LD 19-259HC
 MDs and TVDs are from Rig Floor 5244.0ft above Mean Sea Level

Wellpath Report

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	DLS [deg/100ft]	Vertical Section[ft]
0.00	0.00	0.00	0.00	0.00	0.00		0.00
82.00	0.26	152.35	82.00	-0.16	0.09	0.32	-0.17
168.00	0.26	193.05	168.00	-0.53	0.13	0.21	-0.53
254.00	0.26	142.86	254.00	-0.87	0.21	0.26	-0.88
343.00	0.22	71.58	343.00	-0.98	0.49	0.32	-0.99
432.00	0.62	20.87	432.00	-0.48	0.82	0.57	-0.48
522.00	1.27	345.10	521.98	0.94	0.74	0.94	0.93
612.00	2.02	358.81	611.95	3.49	0.45	0.94	3.49
702.00	2.90	3.12	701.86	7.35	0.54	1.00	7.35
792.00	2.46	354.59	791.76	11.55	0.48	0.66	11.54
882.00	3.16	353.01	881.65	15.93	0.00	0.78	15.93
972.00	3.34	357.40	971.51	21.01	-0.42	0.34	21.02
1062.00	3.47	358.37	1061.35	26.36	-0.62	0.16	26.36
1152.00	2.94	356.08	1151.21	31.38	-0.85	0.61	31.39
1241.00	2.72	357.75	1240.10	35.77	-1.09	0.26	35.78
1331.00	2.64	353.18	1330.00	39.96	-1.42	0.25	39.97
1421.00	2.46	354.77	1419.91	43.94	-1.84	0.21	43.96
1511.00	2.29	3.56	1509.84	47.66	-1.91	0.45	47.68
1601.00	2.33	3.73	1599.76	51.28	-1.68	0.05	51.29
1691.00	1.85	4.79	1689.70	54.55	-1.44	0.54	54.56
1781.00	1.93	5.23	1779.65	57.51	-1.18	0.09	57.52
1871.00	1.32	9.80	1869.62	60.04	-0.86	0.69	60.05
1952.00	0.62	3.64	1950.61	61.40	-0.68	0.87	61.40
2007.00	0.62	3.64	2005.60	61.99	-0.64	==>	61.99