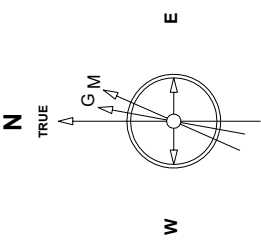


# Great Western Operating Company, LLC

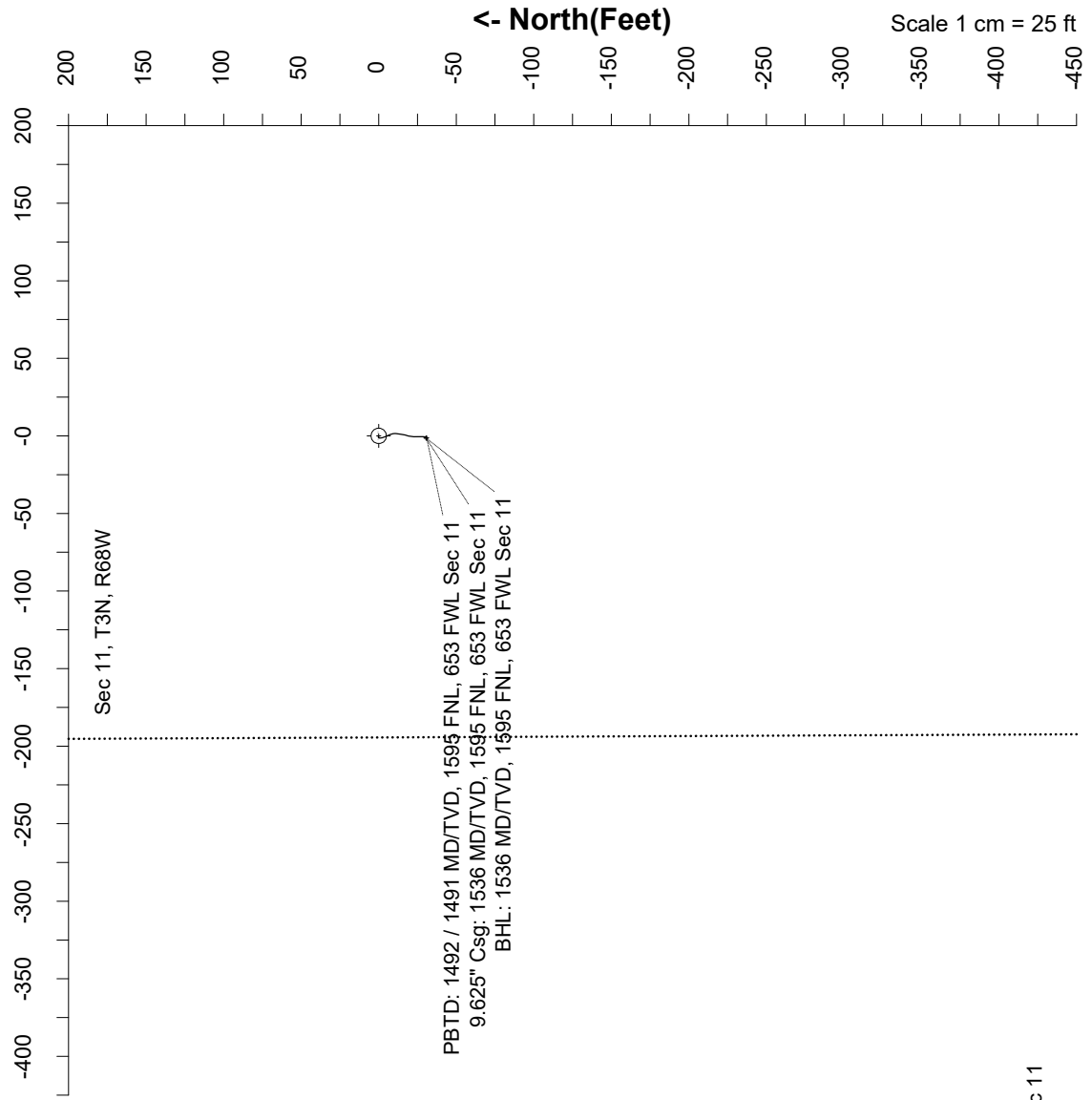
Location	Colorado	Slot	S18 - Postle IC 09-222HNX
Field	Wattenburg	Well	Postle IC 09-222HNX
Installation	Postle West	Wellbore	Postle IC 09-222HNX (AWB)

Created by: nmount  
 Date plotted: 20-Apr-2020  
 Plot reference is Postle IC 09-222HNX (AWB).  
 Ref wellpath is Postle IC 09-222HNX (AWP#1).  
 Coordinates are in Feet reference S18 - Postle IC 09-222HNX.  
 True Vertical Depths are reference Rig Datum.  
 Measured Depths are reference Rig Datum.  
 Rig Datum: Actual Datum #1  
 Rig Datum to Mean Sea Level: 4983.00 ft.  
 Plot North is aligned to TRUE North.



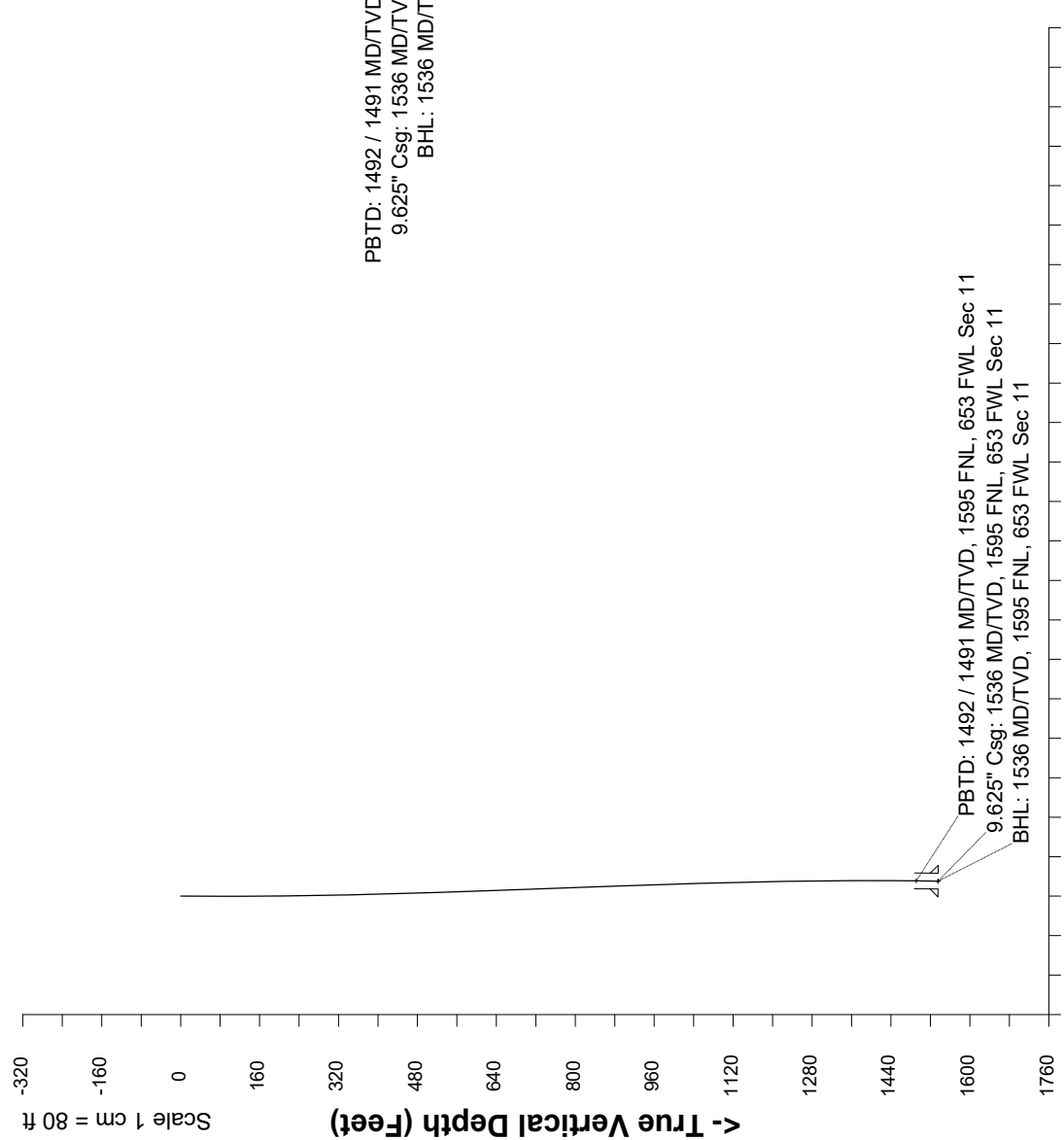
Aug 7, 2014  
 IGRF-12 Dip: 66.78 deg Field: 52956.0 nT  
 Lat: N40 14.38 2488 Long: W104 58 42 2288 Elev: 4877.00 ft  
 Magnetic North is 8.54 deg East of TRUE North  
 To correct azimuth from Magnetic to TRUE add 8.54 deg

Scale 1 cm = 25 ft



PBTD: 1492 / 1491 MD/TVD, 1595 FNL, 653 FWL Sec 11  
 9.625" Csg: 1536 MD/TVD, 1595 FNL, 653 FWL Sec 11  
 BHL: 1536 MD/TVD, 1595 FNL, 653 FWL Sec 11

Scale 1 cm = 80 ft



PBTD: 1492 / 1491 MD/TVD, 1595 FNL, 653 FWL Sec 11  
 9.625" Csg: 1536 MD/TVD, 1595 FNL, 653 FWL Sec 11  
 BHL: 1536 MD/TVD, 1595 FNL, 653 FWL Sec 11

Scale 1 cm = 80 ft

Vertical Section (Feet) ->  
 Azimuth 182.60 with reference 0.00 N, 0.00 E from S18 - Postle IC 09-222HNX

Scale 1 cm = 25 ft

Great Western Operating Co, LLC  
 Directional Survey Report  
 Wellpath: Postle IC 09-222HXX  
 MDs and TVDs are from Rig Floor 4983.0ft above Mean Sea Level

**Wellbore Information**

Date Created	Date Revised	API #	RKB above GL	Well Name
Apr-9-2020	Apr-20-2020	05-123-47380	6.00	Postle IC 09-222HXX

**Slot Coordinates**

Latitude	Longitude
40.24368000	-104.97743700

**Pad Information**

Pad Name	Ground Elev.
Postle West	4977.00

**Field**

Name
Wattenburg

**Wellpath Report**

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	DLS [deg/100ft]	Vertical Section[ft]	Lat - NAD 83	Long - NAD 83
0.00	0.00	0.00	0.00	0.00	0.00		0.00	40.24368000	-104.97743700
78.00	0.57	287.61	78.00	0.12	-0.37	0.00	-0.10	40.24368032	-104.97743832
166.00	0.40	257.20	166.00	0.18	-1.09	0.00	-0.13	40.24368050	-104.97744089
258.00	1.05	178.54	257.99	-0.73	-1.38	0.00	0.79	40.24367799	-104.97744194
350.00	1.71	164.30	349.96	-2.90	-0.99	0.00	2.94	40.24367205	-104.97744053
440.00	1.76	152.70	439.92	-5.42	0.01	0.00	5.41	40.24366513	-104.97743696
530.00	2.02	162.37	529.87	-8.16	1.13	0.00	8.10	40.24365761	-104.97743297
620.00	2.07	184.69	619.82	-11.29	1.47	0.00	11.21	40.24364901	-104.97743172
710.00	1.67	190.49	709.77	-14.20	1.10	0.00	14.13	40.24364103	-104.97743305
799.00	2.02	191.11	798.72	-17.01	0.56	0.00	16.97	40.24363330	-104.97743498
889.00	2.15	194.53	888.66	-20.20	-0.17	0.00	20.19	40.24362454	-104.97743759
979.00	2.07	179.77	978.60	-23.46	-0.58	0.00	23.47	40.24361560	-104.97743909
1069.00	1.93	177.75	1068.55	-26.60	-0.52	0.00	26.60	40.24360698	-104.97743885
1159.00	1.19	181.26	1158.51	-29.05	-0.48	0.00	29.04	40.24360025	-104.97743871
1249.00	0.57	210.44	1248.50	-30.37	-0.72	0.00	30.37	40.24359663	-104.97743960
1339.00	0.35	197.17	1338.50	-31.02	-1.03	0.00	31.04	40.24359485	-104.97744070
1429.00	0.09	319.07	1428.50	-31.23	-1.16	0.00	31.25	40.24359428	-104.97744116
1486.00	0.53	344.56	1485.50	-30.94	-1.26	0.00	30.97	40.24359507	-104.97744151
1536.00	0.53	344.56	1535.50	-30.50	-1.38	0.00	30.53	40.24359629	-104.97744195

**Comments**

MD[ft]	TVD[ft]	North[ft]	East[ft]	Lat - NAD 83	Long - NAD 83	Comment
1491.82	1491.32	-30.89	-1.27	40.24359521	-104.97744156	PBTD: 1492 / 1491 MD/TVD, 1595 FNL, 653 FWL Sec 11
1536.00	1535.50	-30.50	-1.38	40.24359629	-104.97744195	9.625" Csg: 1536 MD/TVD, 1595 FNL, 653 FWL Sec 11
1536.00	1535.50	-30.50	-1.38	40.24359629	-104.97744195	BHL: 1536 MD/TVD, 1595 FNL, 653 FWL Sec 11

**Hole Sections**

Diameter [in]	Start MD[ft]	Start TVD[ft]	Start North[ft]	Start East[ft]	End MD[ft]	End TVD[ft]	End North[ft]	End East[ft]
13.500	0.00	0.00	0.00	0.00	1536.00	1535.50	-30.50	-1.38

**Casings**

Name	Top MD[ft]	Top TVD[ft]	Top North[ft]	Top East[ft]	Shoe MD[ft]	Shoe TVD[ft]	Shoe North[ft]	Shoe East[ft]
9 5/8in Casing	0.00	0.00	0.00	0.00	1536.00	1535.50	-30.50	-1.38

**Survey Tool Program**

Reference	Survey Name	MD[ft]	TVD[ft]	Survey Tool
827108	Surface	1536.00	1535.50	MWD

Coordinates are from Slot  
 MD's and TVD's are from Rig Floor 4983.0ft above Mean Sea Level  
 Vertical Section is from Wellhead on azimuth 182.60 degrees  
 Bottom hole distance is 30.53 Feet on azimuth 182.60 degrees from Wellhead  
 Survey calculation uses Minimum Curvature method