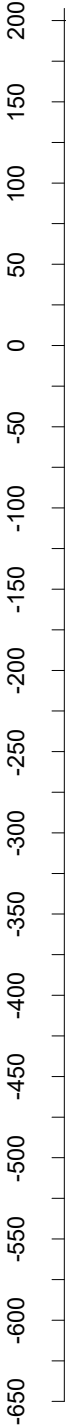


Great Western Operating Company, LLC

Location	Colorado	Slot	N12 - Ottesen LE 09-372HNX
Field	Wattenburg	Well	Ottesen LE 09-372HNX
Installation	Ottesen	Wellbore	Ottesen LE 09-372HNX (AWB)

Scale 1 cm = 25 ft

East (Feet) ->

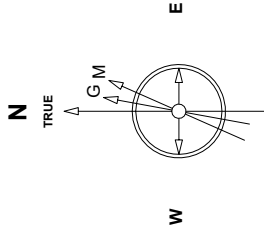


Sec 33, T1N, R66W

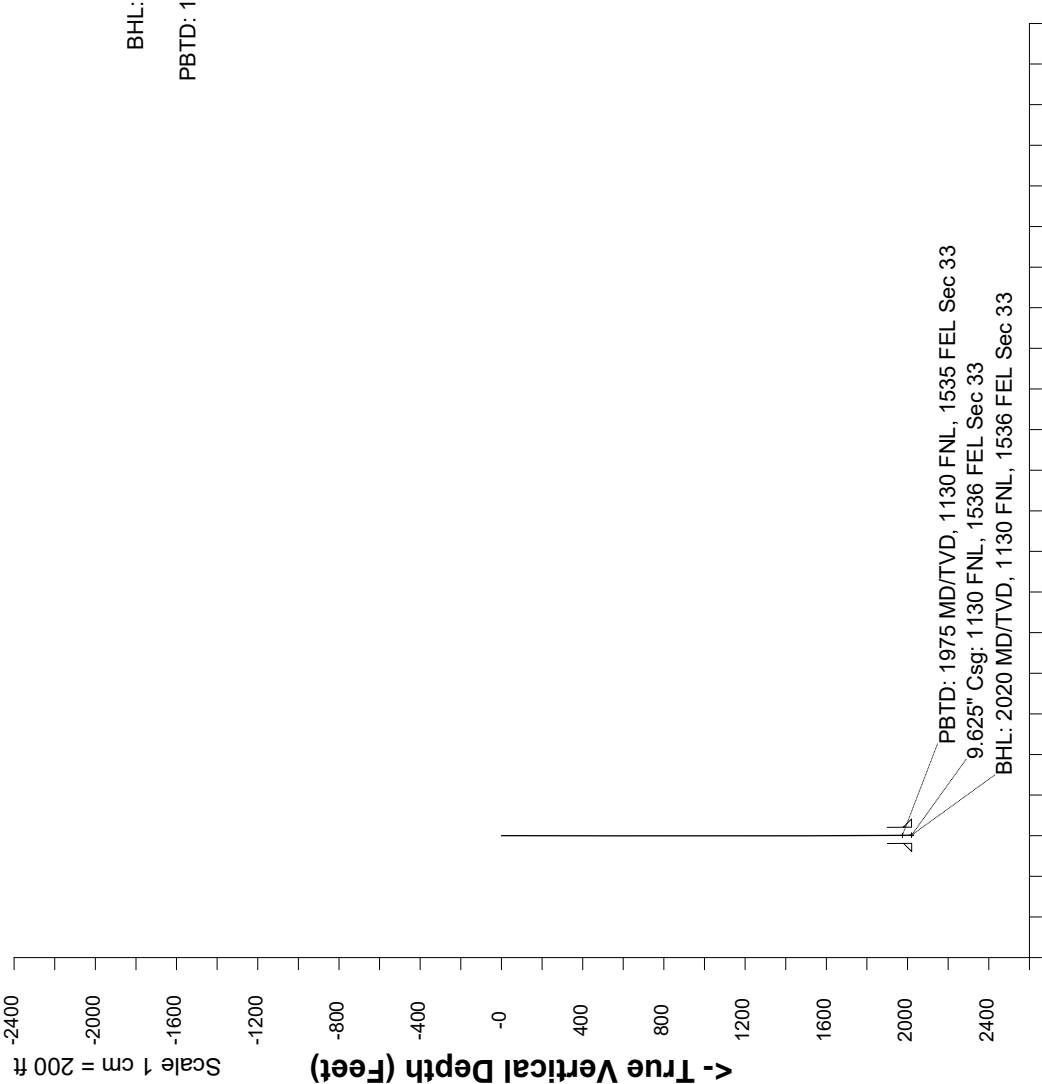
BHL: 2020 MD/TV D, 1130 FNL, 1536 FEL Sec 33
9.625" Csg: 1130 FNL, 1536 FEL Sec 33
PBD: 1975 MD/TV D, 1130 FNL, 1535 FEL Sec 33

<- North(Feet)

Scale 1 cm = 25 ft



Aug8-2016
ISRF-12 Dip: 66.56 deg Field: 52280.7 nT
Lat: N40 0 16.500 Long: W104 46 43.184 Elev: 5076.00 ft
Magnetic North is 6.28 deg East of TRUE North
To correct azimuth from Magnetic to TRUE add 6.28 deg



Scale 1 cm = 200 ft
Azimuth 254.60 with reference 0.00 N, 0.00 E from N12 - Ottesen LE 09-372HNX

Vertical Section (Feet) ->

Sec 33, T1N, R66W

Created by

mmount

Date plotted

23-Apr-2020

Plot reference is Ottesen LE 09-372HNX (AWB).

Ref wellpath is Ottesen LE 09-372HNX (AWP#1).

Coordinates are in Feet reference N12 - Ottesen LE 09-372HNX.

True Vertical Depths are reference Rig Datum.

Measured Depths are reference Rig Datum.

Rig Datum: Actual Datum #1

Rig Datum to Mean Sea Level: 5082.00 ft.

Plot North is aligned to TRUE North.

Great Western Operating Co, LLC
 Directional Survey Report
 Wellpath: Ottesen LE 09-372HXX
 MDs and TVDs are from Rig Floor 5082.0ft above Mean Sea Level

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
86.00	0.17	151.82	86.00	-0.11	0.06	0.20	-0.03
150.00	0.65	126.95	150.00	-0.41	0.40	0.78	-0.27
212.00	0.04	137.23	212.00	-0.64	0.69	0.98	-0.50
302.00	0.08	227.95	302.00	-0.71	0.67	0.10	-0.45
392.00	0.31	324.00	392.00	-0.55	0.48	0.36	-0.31
482.00	0.44	0.39	481.99	-0.01	0.34	0.29	-0.32
572.00	0.70	320.93	571.99	0.76	-0.01	0.51	-0.19
661.00	0.79	25.09	660.98	1.74	-0.09	0.89	-0.37
751.00	0.13	143.30	750.98	2.22	0.23	0.95	-0.81
841.00	0.97	170.20	840.98	1.39	0.42	0.95	-0.78
931.00	1.01	158.42	930.96	-0.10	0.84	0.23	-0.79
1021.00	0.26	39.15	1020.96	-0.68	1.27	1.29	-1.04
1111.00	0.53	8.13	1110.96	-0.11	1.45	0.37	-1.37
1200.00	0.97	288.32	1199.95	0.54	0.80	1.15	-0.91
1290.00	0.79	305.02	1289.94	1.13	-0.44	0.35	0.12
1380.00	0.31	133.90	1379.94	1.32	-0.77	1.22	0.39
1470.00	0.53	119.22	1469.94	0.95	-0.23	0.27	-0.03
1560.00	0.57	153.76	1559.93	0.34	0.33	0.37	-0.41
1650.00	0.66	176.61	1649.93	-0.58	0.56	0.29	-0.39
1740.00	0.53	244.20	1739.92	-1.28	0.22	0.75	0.13
1830.00	0.26	285.77	1829.92	-1.40	-0.35	0.42	0.71
1919.00	0.66	262.74	1918.92	-1.41	-1.06	0.49	1.39
1972.00	0.92	314.69	1971.91	-1.15	-1.66	1.38	1.91
2020.00	0.92	314.69	2019.91	-0.61	-2.21	0.00	2.29