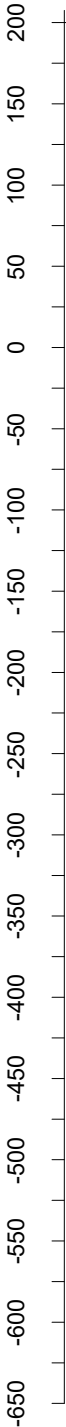


Great Western Operating Company, LLC

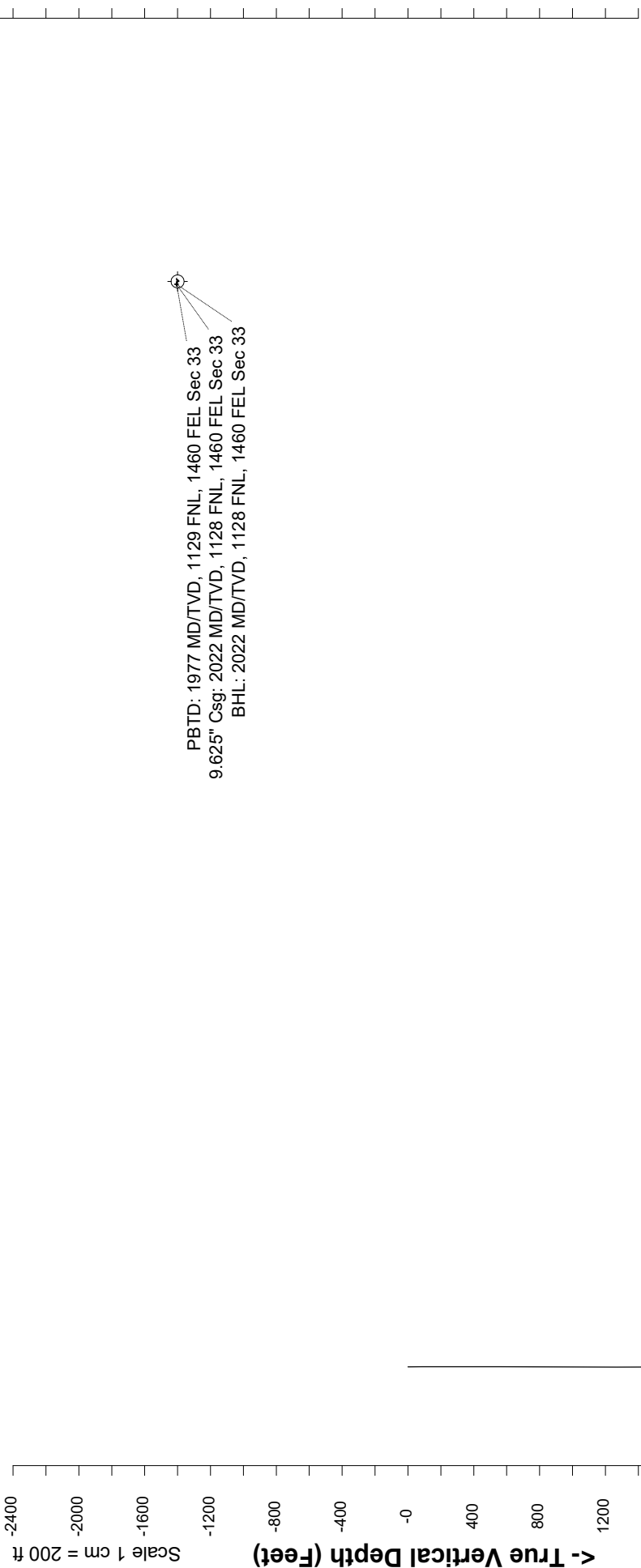
Location	Colorado	Slot	N17 - Ottesen LE 09-369HNX
Field	Wattenburg	Well	Ottesen LE 09-369HNX
Installation	Ottesen	Wellbore	Ottesen LE 09-369HNX (AWB)

Scale 1 cm = 25 ft

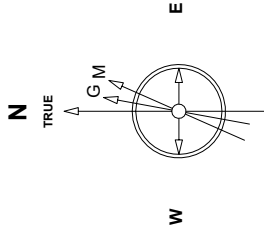
East (Feet) ->



Sec 33, T1N, R66W



Aug8-2016
ISRF-12 Dip: 66.56 deg Field: 52280.7 nT
Lat: N40 0 16.500 Long: W104 46 43.1784 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

Vertical Section (Feet) ->

Azimuth 292.42 with reference 0.00 N, 0.00 E from N17 - Ottesen LE 09-369HNX

PBTD: 1977 MD/TVD, 1129 FNL, 1460 FEL Sec 33
9.625" Csg: 2022 MD/TVD, 1128 FNL, 1460 FEL Sec 33
BHL: 2022 MD/TVD, 1128 FNL, 1460 FEL Sec 33

Created by	mmount
Date plotted	22-Apr-2020

Plot reference is Ottesen LE 09-369HNX (AWB).
Ref wellpath is Ottesen LE 09-369HNX (AWP#1).
Coordinates are in Feet reference N17 - Ottesen LE 09-369HNX.
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 09-369HNX
 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
84.00	0.83	296.23	84.00	0.27	-0.55	0.99	0.61
148.00	0.79	289.20	147.99	0.62	-1.38	0.17	1.51
210.00	0.48	47.68	209.99	0.93	-1.59	1.78	1.83
300.00	0.57	255.71	299.99	1.08	-1.74	1.13	2.02
390.00	0.79	188.39	389.98	0.35	-2.27	0.86	2.23
480.00	1.10	66.40	479.98	0.09	-1.57	1.84	1.48
569.00	0.13	195.07	568.97	0.33	-0.81	1.33	0.88
659.00	0.62	107.18	658.97	0.09	-0.37	0.70	0.38
749.00	0.75	185.58	748.96	-0.64	0.04	0.97	-0.28
839.00	0.70	65.16	838.96	-1.00	0.48	1.40	-0.82
929.00	0.40	5.23	928.96	-0.45	1.00	0.68	-1.10
1019.00	0.40	20.78	1018.95	0.15	1.14	0.12	-1.00
1109.00	0.53	38.71	1108.95	0.77	1.52	0.22	-1.11
1199.00	0.26	111.57	1198.95	1.02	1.97	0.57	-1.43
1289.00	0.09	141.28	1288.95	0.89	2.20	0.21	-1.69
1378.00	0.09	327.61	1377.95	0.89	2.21	0.20	-1.70
1468.00	0.92	223.02	1467.95	0.43	1.68	1.05	-1.39
1558.00	0.48	330.95	1557.94	0.23	1.00	1.29	-0.84
1648.00	0.53	277.95	1647.94	0.61	0.40	0.50	-0.14
1738.00	0.57	281.03	1737.93	0.76	-0.45	0.06	0.70
1828.00	0.75	252.81	1827.93	0.67	-1.45	0.41	1.60
1918.00	0.26	277.95	1917.92	0.52	-2.21	0.58	2.25
1974.00	0.31	40.03	1973.92	0.66	-2.24	0.89	2.32
2022.00	0.31	40.03	2021.92	0.86	-2.08	0.00	2.25