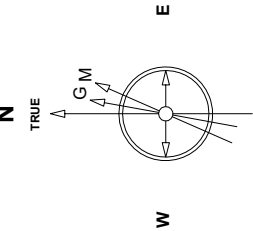


Great Western Operating Company, LLC

Location	Colorado	Slot	W15 - Rio LC 12-371HN
Field	Wattenburg	Well	Rio LC 12-371HN
Installation	Rio	Wellbore	Rio LC 12-371HN (AWB)



Sec: 10-2018
IGRF-12 (1990.0-2020.0) Dip: 66.48 deg Field: 52023.6 nT
Lat: N39.59 98.4700 Long: W104.62 24.3744 Elev: 5098.00 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 = 2 ft

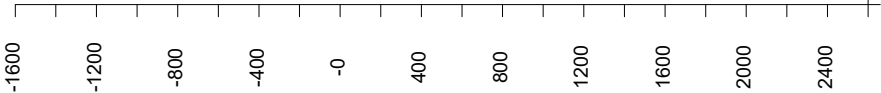
East (Feet) ->

-48 -44 -40 -36 -32 -28 -24 -20 -16 -12 -8 -4 0 4

Sec 06, T1S, R67W

Scale 1 cm = 200 ft

- True Vertical Depth (Feet)



PBTD: 1991 MD/TVD, 459 FNL, 34 FWL Sec 06
9.625" Csg: 2036 / 2035 MD/TVD, 459 FNL, 33 FWL Sec 06
BHL: 2036 / 2035 MD/TVD, 459 FNL, 33 FWL Sec 06

<- North(Feet)



PBTD: 1991 MD/TVD, 459 FNL, 34 FWL Sec 06
9.625" Csg: 2036 / 2035 MD/TVD, 459 FNL, 33 FWL Sec 06
BHL: 2036 / 2035 MD/TVD, 459 FNL, 33 FWL Sec 06

Scale 1 cm = 200 ft

Vertical Section (Feet) ->

Azimuth 268.73 with reference 0.00 N, 0.00 E from W15 - Rio LC 12-371HN

Header Information	measured depth (ft)	inclination (°)	azimuth (°)	true vertical depth (ft)	northing +N/-S (ft)	easting +E/-W (ft)
Operator Name	0	0.00	0.00	0	0	0
Great Western Oil & Gas Company LLC	84	0.77	268.94	84	-0.01	-0.56
Operator Number	148	0.37	241.19	148	-0.12	-1.18
10110	210	0.26	58.40	210	-0.14	-1.23
Well Name and Number	300	0.31	60.61	300	0.09	-0.84
Rio LC 12-371HN	390	0.29	142.97	390	0.02	-0.5
API Number (if available)	480	0.26	9.06	480	0.04	-0.33
05-001-10470	570	0.43	44.66	570	0.49	-0.06
Location: QQ SEC TWP RGE	660	0.17	65.12	660	0.78	0.3
NWNW Sec 6 1S 67W	750	0.32	358.88	750	1.09	0.42
Citing Type: Planned or Actual	839	0.68	281.54	839	1.44	-0.1
Actual	929	1.43	278.69	929	1.72	-1.74
Deviation Indicator	1019	1.62	276.67	1019	2.04	-4.11
Horizontal ▼	1109	3.30	270.14	1109	2.19	-7.97
North Reference	1198	3.33	260.42	1198	1.77	-13.08
True ▼	1288	2.8	270.97	1288	1.37	-17.85
Grid Type	1378	1.91	253.83	1378	0.99	-21.49
▼	1468	1.68	267.99	1467	0.52	-24.25
	1558	0.91	264.72	1557	0.41	-26.28
	1648	1.11	272.78	1647	0.39	-27.86
	1738	1.3	252.02	1737	0.12	-29.7
	1828	1.01	269.1	1827	-0.21	-31.47
	1918	0.03	290.96	1917	-0.22	-32.28
	1988	0.38	200.77	1987	-0.43	-32.38
	2036	0.38	200.77	2035	-0.72	-32.49