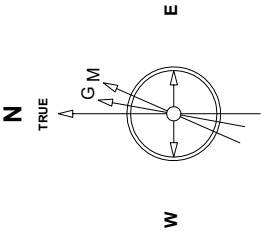


Great Western Operating Company, LLC

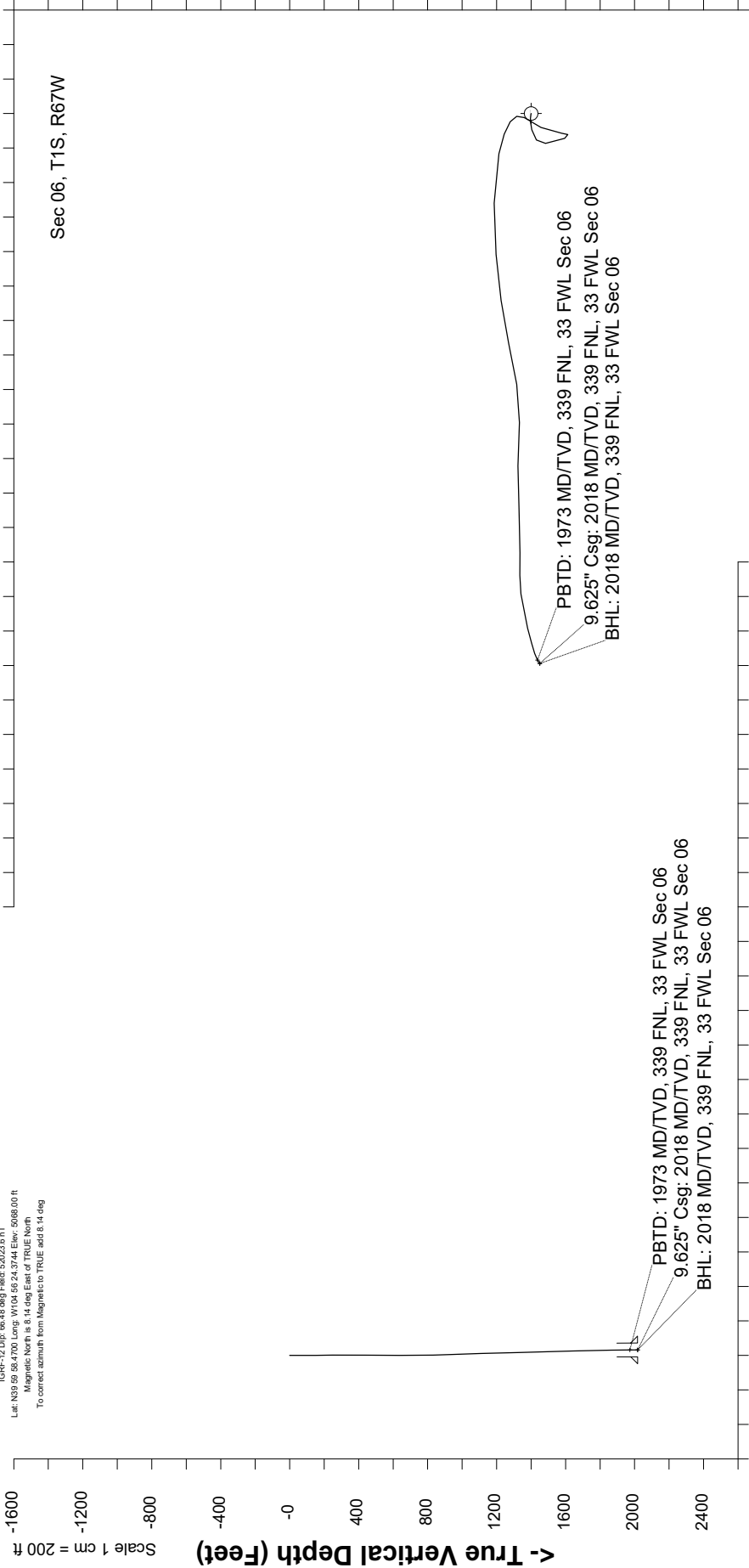
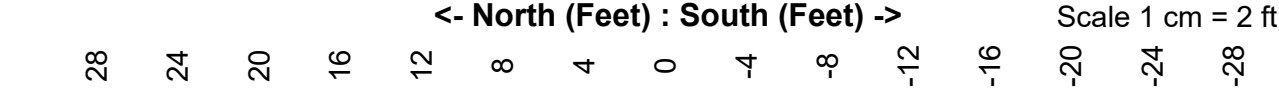
Location	Colorado	Slot	W07 - Rio LC 12-376HN
Field	Wattenburg	Well	Rio LC 12-376HN
Installation	Rio	Wellbore	Rio LC 12-376HN - Surface Hole



Sept-10-2018
IGRF-12 Dec 99.43 deg Field 52023.6 nT
Lat: N39 59 58.4700 Long: W104 56 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) ->



Scale 1 cm = 200 ft

Vertical Section (Feet) ->

Azimuth 269.09 with reference 0.00 N, 0.00 E from W07 - Rio LC 12-376HN

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	0.13	278.04	84	0.01	-0.09
Operator Number	148	0.22	278.04	148	0.04	-0.29
10110	210	1.01	259.76	210	-0.04	-0.94
Well Name and Number	300	0.83	180.66	300	-0.83	-1.73
Rio LC 12-376HN	390	0.70	147.17	390	-1.95	-1.44
API Number (if available)	479	0.83	0.48	479	-1.76	-1.14
05-001-10457	569	0.79	31.51	569	-0.58	-0.81
Location: QQ SEC TWP RGE	659	0.66	29.57	659	0.4	-0.23
NWNW Sec 6 1S 67W	749	0.79	305.9	749	1.22	-0.48
Citing Type: Planned or Actual	839	1.76	282.08	839	1.87	-2.33
Actual	929	1.93	269.43	929	2.14	-5.2
Deviation Indicator	1019	1.85	266.17	1019	2.03	-8.16
Horizontal ▼	1109	1.58	261.17	1109	1.74	-10.84
North Reference	1198	1.63	258.79	1198	1.31	-13.29
True ▼	1288	1.49	258.88	1288	0.84	-15.7
Grid Type	1378	1.36	273.47	1378	0.67	-17.91
▼	1468	1.85	271.1	1468	0.77	-20.43
	1557	1.41	265.21	1557	0.7	-22.96
	1647	1.8	271.54	1647	0.65	-25.47
	1737	1.23	264.07	1737	0.59	-27.85
	1827	1.36	254.84	1827	0.21	-29.84
	1917	0.57	252.73	1917	-0.2	-31.3
	1970	0.31	236.47	1970	-0.36	-31.67
	2018	0.31	236.47	2018	-0.51	-31.89