in less than an hour and a half we were again under weigh travelling up the course of the creek, which has ome pieturecque falls and cascadeg, caused by the inclined strata of red shale and sandstone. Atter two or three miles we began a steep ascent, nud were soon on ground entirely covered with sunw, in which the tracks of the Kootanies who had gone before us were visible. We passed along the whe of a very steep hill, and it was as murh as the horses or ourselves could do in some phire to keep foting. We now descended, crosed a dickly wooded gully, and then commenced the a-ernt to the water-shed through thick wood. The snow inereased in depth as we arcended until on arriving at the crest, it wai two leet on the level, and in pheer heaped up to double that deph. It wa cold work trulking through the enow in thin leatier mocasins without sochs; and, to mahe matters worse, it was blowing and snowing all the time. 1, however, on arriving at the waterNhe 1. with the ax-istance of the Indian "James," whom 1 always found most willing, unpacked the hurse with the imstrument boses, and obtained a reading of thir barometer, which gave an altitude
 commenced a steep descent. It was not, however, very bad, and we soon arrived at a small mountain torrent llowing eastward, thus regaining the waters of the Atlantic after an absence of sixteen day. The trail continued mostly through woods down tie valley due east. The rocks on the tups of the momntains on either side were often of very curinus shapes, and the strata in places much contorted; there were nlso sume magnifient cliffs, nud the cascades of snow water falling down the marrow gullies added motion to the grandeur of the scene. The snow gradually decreased in we desecented. On arriving at the spont where the valley joined another I found the Indians camped on a pateh of prairie, where 1 wrs glad enough to let ny horse free, as we had travelled this day irom six to six, with a halt of only $\frac{1}{2}$ hours.
The horses had the firmt half of the following day to rest, and I took the opportunity of testing my aneroid harometer by the boiling water apparatus, making the ordinary observations, and taking a sketel of a very peculiar peak jast above our camp. Atier two hours' travelling on level ground along hed-none Creek we emerged on the Saskachewan Plains, just six geographical miles north of the $49^{\prime \prime}$ parallel, and camped at Waterton Lakes, two miles east of the mouth of the pass.
The porition of the Waterlon Lakes, as will be seen on the plan, is just where the offset range before spoken of strikes out to the eastward from the main chain, laving the Chief's Mountain at its extremity. The upprermost and largest of these lakes lies in a gorge in the mountains, and is cromed by the boundary line. The scenery here is grand and piecturesque, and I took care to make a sketch from the narrows between the upper or southernmost and second lake.
I was here fortunate enough to discover a stunted species of pine which M. Bourgeau, the botanit of the expedition, had not obtained. I gave him the specimen of this, as well as of some ferus and other phants which I had collected.
I was much struck by the zomparative greenness of the prairies on this side, after the burned-up apparance of the Tobiacoo Plains, which we had left but a few days.
I remained cannred at this pleasant spot two whole days for the salke of the horses, and in order to exariue more carefilly the mature of the country. Game was abundant, including grisly bears, and we obtained both freeh ment and fisll. The trout and pike in the lakes were of large size.
The Chiel's Mountain was not visible from the camp, but $I$ obtained a good view of it from a knoll on the prairie about four miles distant, which with my previous bearings enabled me to lay it down, and curious enough, the boundary line passes just over this peculiar shaped mountain, which stands out in the plain like a landmark." I also made a sketch of it.

It will be seen that some of the waters of the Saskatchewan take their rise from the offset range at the boundary line, and from information gained from the Indians, I believe there is a tributary of the seuth branch, which rises to the sonthward of the Chiet's Mountain, tiins may be the Bull-pound liiver of Anowsmith; if so, this offet range has nothing to do with dividing the waters of the Nissouri and Saskatchewan, and some of the waters of the later must come from American ground.

We "xperienced a gale of wind from the south-west on the night of the 7 th, which on the following morning ceased very suddenly, and an opposing wind from the north brought rain and snow, which gave another coating of white to the mountains. This corner of the monntains appeared to be a very windy spot, and when it was not blowing much on the plain, a strong breeze came from the south down the gorge in which is the Upper Waterton Lake.

On the 10ilh of September I turned my lice towards Fort Edmonton, the previously appointed winter quarters of the expedition, which lay more than three hundred miles to the north, and as will be seen on the plan, passed several creeks, and over a country mostly prairie. I remained at the Forks of Belly River on Sunday the 12 th. From this place I visited a camp of forty-five tents of Blackfoot Indians, accompanied by one of my men and "James," the Cree Indian. I was received with the usual hospitality, and having expressed a desire to change a horse or two, 1 had no troutle the following morning in exchanging one and buying another for ammunition, tobacco, blamkets, old coat, S'c. 'This tribe has the credit of being dangerous, but from what I have seen of them, I consider them far better behnved than their more civilized neighbours, the Crees. I made it a rule never to hide from lndians, and, although I lad but a small party, to go to them as soon as I knew of their proximity. I also always told then for what reason the British Government had sent the expedition to the country; and I never failed to receive manifestations of goodwill, neither was there one attempt made to steal my horses, a practice only too prevalent among the Indians of these plains.

I need not describe my northward journey ; suffice it to say that I kept to the east of my former track, along the base of the mountains, except when I turned in for the purpose of raising the cache. I rested at Bow River on Sunday the 19th, travelleil wir prairie till crossing Red Deer River, the

