Form No. 2.

1870 2

THE WESTERN UNION TELEGRAPH COMPANY.

INCORPORATED

21,000 OFFICES IN AMERICA. CABLE SERVICE TO ALL THE WORLD.

THOS. T. ECKERT, President and General Manager.

Receiver's No.	Time Filed	Check

SEND the following message subject to the terms on back hereof, which are hereby agreed to.

Oct. 3d, 1898.

To Geo. R. Wieland, Piedmont, South Dakota.

Will look after all your things
when they come. Get Cycads in place
or otherwise from your new locality if convenient.
Give up Corkscrew trip if short of time.
Govt rate. (Signed) O. C. Marsh.
Paid.

☞ READ THE NOTICE AND AGREEMENT ON BACK. ☜

ALL MESSAGES TAKEN BY THIS COMPANY ARE SUBJECT TO THE FOLLOWING TER.

To guard against mistakes or delays, the sender of a message should order it REPEATED; that is, telegraphed back to the originating office for comparison. For this, one-half the regular rate is charged in addition. It is agreed between the sender of the following message and this Company, that said Company shall not be liable for mistakes or delays in the transmission or delivery, or for non-delivery of any UNREPEATED message, beyond the amount received for sending the same; nor for mistakes or delays in the transmission or delivery, or for non-delivery of any REPEATED message, beyond fifty times the sum received for sending the same, unless specially insured, nor in any case for delays arising from unavoidable interruption in the working of its lines, or for errors in cipher or obscure messages. And this Company is hereby made the agent of the sender, without liability, to forward any message over the lines of any other Company when necessary to reach its destination.

Correctness in the transmission of a message to any point on the lines of this Company can be INSURED by contract in writing, stating agreed amount of risk, and payment of premium thereon, at the following rates, in addition to the usual charge for repeated messages, viz, one per cent. for any distance not exceeding 1,000 miles, and two per cent. for any greater distance. No employee of the Company is authorized to vary the foregoing.

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THOS. T. ECKERT, President and General Manager.

-18703 [2444]

Piedmont, South Dakota,
Oct. 3, 1898.

Prof. O.C. Marsh,
Yale University
Dear Sir,

I enclose freight-receipt for Boxes 11, 12, 13, 14 & 15 - all Barosaurus lentus:- contents as follows:—

XI. Dorsal (?) Vertebra K.
Caudal " N
Ribs.- Nos 18, 20, 25, 26.

XII. Dorsal (?) Vertebra S.
Rib 29. - Fragmentary Rib 32.

XIII. 27. a, b, c, d, e, f Rib - Good
28 (portion: see XI.). good
30.- Situ fragments of Vertebra. a. b. c. d,
31.- Isolated Rib fragment. fair.
~~32. " " " - good.~~
33, Rib frag. a, b, c, d. goods
34. Situ fragments.
35. " "
36. Broken Ossicle (poor)
37. - Stray portion of Chevron. Connection in Earlier Shipment

18704

2

38.- Isolated fragment

39.- Complete somewhat flat bone unreferred 5 in. ⊏⊐. crosssection ∞.

40.- A good Metatarsal from Surface.

41.- Fragment of ~~Humerus~~ (?) large bone.

42.- " " Chevron (?)

43.- Rib fragment. - poor

44.- " " - poor.

45.- Chevron (a-e).- Good.

46- Fragments - a-i.- From beneath vertebra R.

47.- Fragment large bone.

48.- " Humerus (?)

49.- a, b. Frag. from near S.

50 - Broken Stray " "

51 - " " " "

52.- Chevron.

53.- Distal 1/3 of ischium (?) ~~Fair~~. Good

XIV. Vertebra R.- An important vertebra.

XV. Vertebra S.- One of those with the remarkably long centrum.

18705

2.

I seem to have gotten beyond the Bone limit & can finish Barosaurus in a few days, so as to leave Piedmont by the close of the week. Unless you wish it I may not go to Deadwood at all. I have not been there yet. — I wrote Wells as to whether we might not talk over some mutually satisfactory plan of visit to the Bad Lands. — I thought it might be a good point to get him along & treat him well, so that in case material should be found at the last minute he might perhaps secure it. — Whatever plan taken I shall see to its being an economical one.

The weather ought to remain favorable for work throughout the month.

You will get the most out of my work by beginning on it in reverse order, taking the last first. — I suppose I do not need to tell any one that I made some awkward flourishes when I first

18706

4

tackled those big vertebrae. - However, I demand of myself continued improvement, & it was my great anxiety to get into the field during the vacation so I might be that much ahead. - I am anxious now to finish up the work in the best possible manner the fossils will permit. - I remain,

Yours faithfully,
Geo. R. Wieland.

P.S. - The remaining shipment of Barosaurus will be from three to four boxes - weight about a ton, - all vertebrae.

I have not yet heard about the fossil wood which Dr. Beecher examined & fear you think I am somewhat like an old farmer I knew in Kentucky who "had a passion for sawmills."

G.R.W.

Telegram just recd. Have one Cycad much worn, but some good points & 3 ft long. & will get it Wednesday.

Form No. 1.

18707

THE W[illegible]EGRAPH COMPANY.

21,000 [illegible]RVICE TO ALL THE WORLD.

This Company TRANS[illegible]y, which have been assented to by the sender of the following message. Errors can be guarded a[illegible]parison, and the Company will not hold itself liable for errors or delay in transmission or delivery of [illegible] in any case where the claim is not presented in writing within sixty days after the message is [illegible]ed wi[illegible]

This is an UNREPEATED MESSAGE, and is delivered by request of the sender, under [illegible] conditions named above.

THOS. T. ECKERT, President and General Manager.

Form 116. Wes[illegible] CA[illegible] Pay no C[illegible] No. Charges + answer

Wiland Oct 6. 98

9.45 A.

NUMBER	SENT BY	REC'D BY	CHECK
40.	Xg	Rg	24 Collect.

RECEIVED at NEW HAVEN, CONN., MAIN OFFICE, 723 CHAPEL STREET. 10/6 1898

Dated Piedmont S.D. 6

To O. C. Larsh,

New Haven Ct.

Any objection to paying Wells five dollars per day for outfit time and service on furtle trip total expense per day six dollars.

G. R. W.

George R. Wieland Oct 6. 18708

[1898]

Piedmont S Dak

Too late for much new Exploration. Better finish present work fully. including Cycads. Will write. Ship only fourth class freight.

Prof O C Marsh

18709

XIII.

Piedmont, S. D.
Oct. 10, 1896

Prof. O.C. Marsh
New Haven, Conn.

Dear Sir,

A little further digging to test fully whether the Baroasaurus bone run has played out for good — & which does not promise much — is all that remains to do in that fossil.

I could get in case further work is to be done (not having received your letter yet) one of those McBrides with outfit $2.50 per day cheaper than Wells, but my judgment is that he would be comparatively the dearer of the two.

I regret that I did not examine the fragments of the Cycads in the Museum so as to know absolutely what it would be justifiable to spend some time in hunting to reinforce the material. The complete ones on the surface were all taken except the large one I have yet to pack — so far as I have yet found

18710

out. – Lester F. Ward went over the ground two days ago. — From the lay of the ground I am satisfied that a sharp steel sound – somewhat like Von Könen was in the habit of carrying to get at the character of the undisturbed soil – would reveal better Cycads than have been gotten. There are in places no other hard rocks than the Cycads. & a few days of systematic & industrious probing would very likely yield results. — I mention this idea to you only. — I find some fragments picked up when I first came are from the exact spot where the largest Yale Cycad came from & possibly belong to it. – I remain,

Yours faithfully,
Geo. R. Wieland

Metand Oct 10, 98
Barosaurus about finished
Cycads, & boring for them
Tel. ans enclosed

XIV.

18711

Piedmont, South Dakota,
Oct. 12, 1898.

Prof. O.C. Marsh.
New Haven, Conn.

Dear Sir,

Your favor of the 8th inst. with check for $50 + same date + has been received.

I intended bringing up the subject of freight rates, but deferred doing so for the present as the heavy shipments from here are at 4th class or roughstone rates. — In the other two cases I first tried persuasion & then protested against the rate charged. — In the last case I resorted to the expedient of explaining to the agent that undressed fossils would fall into the same category as undressed stone. — I have seen the printed instructions & I truly think that rigorously interpreted they demand the 1st class rate. For this reason it would probably be best not to press the Question of rates until I can get the rest of the material at the 4th Class rate. A ton or more is now ready & I have only delayed having it taken

18712

till I could see if I needed more lumber for boxing up further material.

Barosaurus has evidently run out, though I uncovered a rib today. I shall test the space in front fully before leaving. The tooth sent was the only trace of a skull found at any time.

It is my decision that Wells failed to observe or report some very patent facts connected with the Cycad locality. But as it would only do harm & could do no good I have kept very quiet on that subject. — In a previous letter I have spoken of the Cycads as found high up around an anticlinal valley. Now, down at the bottom of that valley are the Baptanodon beds — fully a mile east of their rim outcrop. — I did not point them out to either Wells or Ward, but if they escape Ward he is not looking very sharply. — Look as I would, no specimen beyond the one mentioned was to be found in the new locality to the North of the Cycad valley. They are there, but I can't

find them! I hope to make the relations all clear with photographs when I get back.

At present I rather think I may wish to take the permission your letter gives for some further search for turtles as this might at least leave the matter in clearer shape for any future work which might later seem desirable. — As to those "Corkscrews," I have all the while been thinking that it might be possible to make a quick trip and get one or two. It could be done in three days, as they are very abundant. — Perhaps it might be well to enquire at Harrison if 4th class rates could be secured & not attempt the work if they are refused. Just at the close of the work I may refer to this letter by telegram asking for final instructions on this point.

As I may not bring the point up again I wish to say that whatever value or lack of value the results I bring back may have, that I have ~~had~~ taken the most unfailing interest in this work and regard it of the

18714

highest importance. The single thing I have in mind is to bring myself to the point where I can demand of myself the fullest precision. - I trust that when next I go into the field it will be found I have fully passed the Novitiate, & am satisfied that because of the experience gained this summer it will be possible for me to benefit more rapidly during the coming Winter. - I hope in the meantime that no one will get the impression that I have been unmindful of the lectures, for I am sorry to lose a single one of them. - Professor Phillips work that my absence had been excused, & I am very much obliged to you for this, also for the care of my books Etc. Etc.

The weather is very good, barring high winds about every other day. When the wind gets to booming along it is not so easy to work. - N. H. Darton of the Geol. Survey ~~called~~ came to see the work & locality yesterday. He says he has a Jurassic fish locality near Buffalo Gap to mention to you, & expects to be at Yale some time during the Winter. - I remain, Yours faithfully Geo. B. Wieland

Receiver's No.	Time Filed.	Check.
		18715

SEND the following message, subject to the terms on back hereof, which are hereby agreed to.

Oct 14 1895

To G. R. Wieland

Piedmont. S. Dakota.

Letter Rec'd. Your plan for
~~Suggestion about~~
funding ~~Claims~~ a good one.
Try it by yourself ~~alone~~.
and telegraph results.

H. C. Marsh

Gov. Valley
Dak.

☞ READ THE NOTICE AND AGREEMENT ON BACK. ☜

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THOS. T. ECKERT, President and General Manager.

18716

Piedmont S.D.

Oct. 14. 1898.

Prof. O.C. Marsh
Yale University.

Dear Sir,

Your telegram came this evening & I shall try for the Cycads to-morrow. - I certainly think something ought to be accomplished. It is a great pity the plan could not have been tried when most of the material was still in the ground. However the chances are still fair as a fragment is a better indicator than a whole Cycad - in all probability. - I can get a suitable steel rod or probe made at a blacksmiths several miles down the road.

Baroscaurus was completed

18717

today. The boxes are at the Station & it only remains to address them. — I am satisfied that I have left nothing further obtainable of that fossil. —

In telegraphing concerning the Cycads I shall allude to them as Culms. — I remain,

Yours faithfully
Geo. R. Wieland

1871?

2457

Piedmont, South Dakota
Oct. 15. 1898.

Prof. O.C. Marsh,
Yale University
Dear Sir,
I enclose freight receipt for the last shipment of Barosaurus including one Cycad as follows:-

Box XVI. Vertebra Or of Barosaurus Centrus.- One of the Long Cervicals.?

Box XVII. Vertebra P. O. N, an unseparated Group.- Barosaurus.

Box XVIII. Vertebra ?.- A fragmentary long neck Vertebra which ran out into disturbed surface material.- Also.-
54.- Bony plate 30 cm x 15.

which may be a sternal bone.

55.- Small bony plate which was disturbed over night & broken.

Box XIX. - Cycad from 4 Miles East of Piedmont. Also the last portions of Barosaurus obtained, namely:-

56.- Portion of rib.
57 a & b to 56(?) Rib Box.
58. Small Cervical Rib
59. Stray broken fragment
60. " " "

I have already packed a box which would be no. 20, but hesitate as to whether it is worth sending

18720

It would weigh about 300# & contains fossil wood & Cycad fragments about half & half. – Some of these fragments came from hard by where the largest Yale Cycad was obtained – perhaps belong to it. Another fragment – showing good structure is of interest because the man I got it from – a Mr. Leedy, now living near Rapid City – picked it up North of Black Hawk in 1877. I suppose it is a Jamesiana

I have made, and packed all boxes up to the present wholly unaided. – I remain,

Yours faithfully
Geo. R. Wieland

1872

XVII.

Piedmont, S.D.
Oct. 16, 1898.

Prof. O. C. Marsh,
Yale University.

Dear Sir,

No doubt I shall have telegraphed concerning the Cycads before this letter reaches you.

Today (Sunday) the wind is blowing at such a high rate & so unusually cold for the time of year that I thought it might be the safer to wait for a more favorable time for working. — I have already been on the Cycad ground with a probe I had made & find that the great obstacle will be the excessive hardness of the soil. I would not have believed it. — As I noticed four or five new & undisturbed fragments, there is a possibility — not to be neglected — of still

finding surface material at the same time that the probing is carried on.

I am in considerable quandary about the turtles. - There is ground within 25 miles of Creston (P.O.) that certainly ought to be examined. But this fall - it is fair to say - is unseasonable because it has been as bleak & cloudy as November in Pennsylvania. - I anticipate several weeks of mild & calm sunshiny weather following this snap, but anticipating & getting are different. - My inclination would be to go for the turtles even yet because I do not like to be beaten & I was all packed for that purpose (after visiting Deadwood) when your last telegram came.

18723

The total expense – personal & general for all purposes – from the morning I left New Haven to the present writing has been $246. – Received, in checks, cash, & money, $250.

The expenditures for all purposes – which may be reckoned as personal for the entire time – 96 – days – fall a few cents short of $100. – The final figures will therefore correspond very closely to my original estimate. – That is the lower one. – I hope we may come out on the work! – I remain,

Yours faithfully,

Geo. R. Wieland

Form No. 44.

...ESSAGE.

TH... ...TELEGRAPH COMPANY.

...RATED

...BLE SERVICE TO ALL THE WORLD.

This Compa... ...g its liability, which have been assented to by the sender of the following message. Errors can b... ...ion for comparison, and the Company will not hold itself liable for errors or delays in transmission ... beyond a sum equal to ten times the amount paid for transmission; nor in any case when the cl... ...ed with the Company for transmission. This is an U... ...the sender, under the conditions named above.

...nt and General Manager.

Wieland Oct 18 98

Charges.....

No. 4 6

Pay no Charge

Form 116.

Weste

CABLE

18724

4628

NUMBER	SENT BY	REC'D BY	CHECK
4Ny	It	Fo	15 Collect Nite

RECEIVED at _____ 189

Dated Piedmont S.D. 18 Oct 1898

1059

To Prof. O.C. Marsh

Yale University

New Haven Conn.,

Cull results unsatisfactory shall I check baggage to Buffalo Gap and search rim afoot?

G.R.W.

3:30A

Ne 8406

No. of Words, _____ 18725

Form No. 102.

THE WESTERN UNION TELEGRAPH COMPANY.

INCORPORATED

21,000 OFFICES IN AMERICA. CABLE SERVICE TO ALL THE WORLD.

THOS. T. ECKERT, President and General Manager.

Receiver's No.	Time Filed.	Check.

SEND the following message, subject to the terms on back hereof, which are hereby agreed to. } Oct 19th 1898.

To George R. Wieland
Piedmont. S. Dakota.

Ship box twenty. Then do ~~what~~ best you can with Cycads and Turtles, especially No 3. ~~especially the latter,~~ ~~and~~ Return here whenever you think best. Telegraphing new address. O. C. Marsh.

Govt rate Paid.

READ THE NOTICE AND AGREEMENT ON BACK.

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THOS. T. ECKERT, President and General Manager.

No. 18726 189

To

No. of Words,

Form No. 102.

THE WESTERN UNION TELEGRAPH COMPANY.

INCORPORATED

21,000 OFFICES IN AMERICA. CABLE SERVICE TO ALL THE WORLD.

THOS. T. ECKERT, President and General Manager.

Receiver's No.	Time Filed.	Check.

SEND the following message, subject to the terms on back hereof, which are hereby agreed to. Oct 19 1898.

To G. R. Wieland
Piedmont S. Dakota.

If Convenient get a few fossils from ~~several~~ locatities in Baptanodon beds. Also; some twisted Cephalopods. in Concretion eight Miles South East Buffalo Gap.

O C Marsh

Gov't rate Paid.

READ THE NOTICE AND AGREEMENT ON BACK.

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THOS. T. ECKERT, President and General Manager.

18727

Rapid City, S. D. Oct. 20/98.

O. C. Marsh,

Next address Buffalo

Gap

G. R. Wieland

Oct. 20 18728
[1898]

Wells has a remarkably handsome Cycad Center characteristically leaf scarred on one side smoother other 14 in long by 9 to 10 in in diameter which he asks $10 for. Should you get it or send for it, it would be of some use to us if you said you bought it on my recommendation. — Every person who ever went to that locality must have walked over it two or three times! Finally Wells hired Man who stabbed about indiscriminately found it just before I came away. — Ward induced Wells to go down there & gather up every scrap & Wells did so 3 days ago & has stuff at home. This Center & one piece showing many fruits only 1st Class material Wells got so far as I can say. Nicholas

POSTAL CARD - ONE CENT.

United States of America.

THIS SIDE IS FOR THE ADDRESS ONLY.

Prof. O. C. Marsh

Yale University

New Haven

Conn.

1872?

Rapid City S.D. Oct. 21

Start for Bear Creek for one week's Fort Pierre examination, when I would propose to return & examine rim. I am anxious to do this, & think it can be done better now than any other time. Had a no. of things go from Stilwell, & hope some are good selections. Best hold the Cycads sent ~~him~~ by Stilwell till I get back. — The weather looks so settled to day that I could not resist inclination to go counter to telegram. Very truly. G.K.W.

Form 102.

THE WESTERN UNION TELEGRAPH COMPANY

No. 18730 189

To

No. of Words,

Form No. 102.

THE WESTERN UNION TELEGRAPH COMPANY.

INCORPORATED

21,000 OFFICES IN AMERICA. CABLE SERVICE TO ALL THE WORLD.

THOS. T. ECKERT, President and General Manager.

Receiver's No.	Time Filed.	Check.

SEND the following message, subject to the terms on back hereof, which are hereby agreed to. Oct 22 1898

To George R. Wieland
Buffalo Gap.
S. Dakota.

Message Recd. Letter of directions mailed today. Use your own judgement about ~~rest of~~ your work for the present.

Good rate
Paid

O C Marsh

☞ READ THE NOTICE AND AGREEMENT ON BACK. ☜

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THOS. T. ECKERT, President and General Manager.

Form No. 44.

NIGHT MESSAGE.

18732

THE WESTERN UNION TELEGRAPH COMPANY.

INCORPORATED

21,000 OFFICES IN AMERICA. CABLE SERVICE TO ALL THE WORLD.

This Company **TRANSMITS** and **DELIVERS** messages only on conditions limiting its liability, which have been assented to by the sender of the following message. Errors can be guarded against only by repeating a message back to the sending station for comparison, and the Company will not hold itself liable for errors or delays in transmission or delivery of **Unrepeated Night Messages**, sent at reduced rates, beyond a sum equal to ten times the amount paid for transmission; nor in any case when the claim is not presented in writing within thirty days after the message is filed with the Company for transmission.

This is an **UNREPEATED NIGHT MESSAGE**, and is delivered by request of the sender, under the conditions named above.

THOS. T. ECKERT, President and General Manager.

NUMBER	SENT BY	REC'D BY		CHECK
3Ny	It	Fo	30 Collect Nite	Govt. rate

RECEIVED at _____ 189

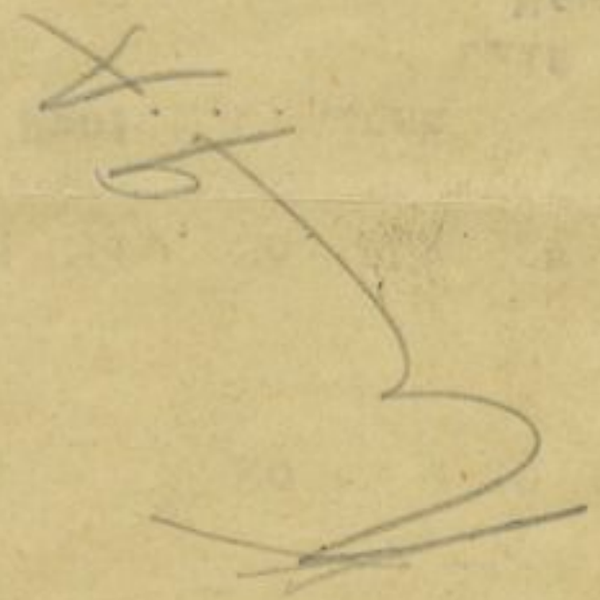
Dated Rapid City, So. Dak. 27 Oct 1898

To Prof.O.C.Marsh
Yale University
New Haven Conn.,

Placed one additional T start on rim trip to-morrow weather too unseasonable for further vertebrate work, have written

G.R.W.

5:08A



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XIX.

Rapid City, S.D., Oct. 27 '78.

Prof. O.C. Marsh,
Yale University

Dear Sir,

Your letter of Oct. 22 with enclosed check for $75 has been received. It is not likely that I shall require any further funds to reach New Haven, unless I should be lucky enough to find some Cycads on the return trip. While I am likely not to find a new spot it does seem to be best to try while I am here & the horizons are fresh in my mind.

Your telegrams were all received & understood as referred to in your letter. I did not think it would be necessary to spend any time on the Baptanodon beds — in the way of collecting — as I was able to delegate that matter to a young man who teaches the public school at Piedmont. He will undoubtedly be exceedingly useful to Professor Beecher and yourself, & says he is willing to make the desired collections for the sake of their educational value. I pointed out the stratigraphical relations very fully to him & also showed him some of the best

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points to begin work. — The Baptanodon beds teem with fossils opposite Piedmont, & I hope some new things may come from that vicinity. I have in my luggage some rock — evidently from upper limit of the Atlantosaurus Bed — which is made of the shells of very tiny ~~mold~~ bivalves. I enclose map locating a vertebrate fossil in a shale bed which at the time of finding I thought to be about 50 ft above the Atlantosaurus shale. — It was near the close of a bitter stormy day ~~&~~ when I found it & I cannot declare absolutely, though I do not think I am wrong, I frank some surface fragments by this mail.

I have just returned from a works hurtle reconnaissance having gone down over the divide between Rapid Creek & Box Elder to the mouth of Sage Creek, up Sage to the forks, and along South fork for five miles. From there I passed across the Hay Draw & over to Bear Creek which I followed into the Bad lands Basin of Bear Creek. The Bear Creek outcrops look the best of any for turtles, though none were found. The hasty examination was very much interfered with by snow. The Bear Creek Basin clothed in snow & mist with a background of lowering clouds formed one of the most sublime sights it has been my fortune to see.

Bear Creek & Hay Draw ought to be scoured for Ammonites. — Had it not been for the

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know I should have tried to secure some Ammonites. – Some one should write to A. Randolph, Dakota City concerning an unusually large one which he refused five dollars for. – I did not see it, but he still has it. Randolph is a grumpy ranchman who lives on the South fork of Sage Creek.

On my return I again visited the old turtle locality & located a seventh near no. III. It is on a smooth grassy hillside & I have no idea that any one will find it. – The people I hired to do hauling found an eighth a little lower down in the Pierre than I supposed turtles they were likely to be found. It seems to have been a young one, & I suppose we ought to have it, but unfortunately they are going to be very fussy. They want to dig it out themselves & will hear to nothing else. I assured them finally that they had best send it to you on approval, & the intention now is to do this. – Should you wish to write directly the address is Peter Hammergniot, Esq, Farmingdale, S.D. There is very little chance for an additional skull from this specimen, though it is likely my no VII. will yield a skull.

I am now thinking to return after visiting locality East of Buffalo Gap & completing the rim examination. – The days are so much shorter & the weather interferes too much.

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Besides I dislike losing any more of the lectures & would like have a change from the nearly inevitable adjunets to Black Hills exploration. - "adamantine cookies, indestructible pie, & vulcanized sandwiches"! However, I would like to send one of those corkscrews back, & think to stop off if there is fair weather when I get down to Nebraska.

I remain, Yours faithfully,
Geo. R. Wieland

P.S. - The agent at Piedmont told me he had not been "called down" on the freight rating of fossils, & I hope he did not conveniently get that done. Those rates are ~~crazy~~ terrifying. The Pa lines did give the low rate. - Would you not think it a good thing for me to go to the Chicago & Northwestern agent when I get back to Chicago & make an independent personal appeal for fair concessions. - I can also go to my old College friend W. M. Camp who is now editor of the Railway & Engineering Review

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& get him to discuss this matter in our favor editorially. He is an untrammeled broad-gauge fellow and admirably qualified to handle the matter with effect. Furthermore I know he sympathises with our work. — What would you suggest on this point?

I frank hand specimens of Ferrous Sulphate for Mineralogical Dept - which are quite unique. — Donated by Prof. Alexander Forsyth of Dakota School of Mines. He withholds ~~any~~ rights of description. Forsyth & Dr. C. C. O'Harra (of School of Mines) are also working on a superficial (I suspect) description of enormous spodumene crystals from eighteen miles West of here. They offered me a piece from a single crystal ~~eighteen feet~~ twenty eight feet long by 2½ feet thick. — If the matter is attended to now it might be possible to get one of these gigantic specimens quite entire. Forsyth & O'Harra think it can't be done, but the photographs they showed me show that it can be done by applying bone methods. — Both the

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gentleman expressed their willingness to assist Yale in getting good material, but as their affiliations are with Harvard & Johns Hopkins it would be best to hop in now if the Mineralogical Dep't thinks to take the matter up. The big crystals exposed in mine number some half dozen. There is a great abundance of smaller material. Forsyth & O'Harra have been working together in the matter. They are anxious to add Geological Monographs to their library. — I was glad the wood Etc. was shipped. — Ward does not know how to identify it, because as he says the silicifying process destroyed the microscopic structure. — Now I have a theory (in spite of the fact that many feel able to despise theories) that this explanation is insufficient and unreasonable — that the microscopic structure did leave its impress on silicification & that there is yet to be found a method of bringing the finer structure to light by something akin to staining: as in agates — somewhat after the plan of the ~~botanists~~ microscopic work in Biology

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