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## Agriculture, etc.

DEEP AND SHALLOW PLANLINGS

many light, mellow soils there is little danger of pumping a well. In the flowing wells-that is, season be favorable, and not too dry, the results but this, in some instances, is very deep. In a will be less satisfactory. On the contrary, if well on Watson's Flat the drill has reached the such seed be covered deeply in heavy soils depth of one hundred teet, and yet the third bed where a crust often forms soon after a heavy of sandstone is not reached." rain, many of them could never force a passage The Flowing Well.—There are two sorts of on heavy soils to cover the seed shallow, and still have it deep enough to germinate.—American Agriculturist.

of half a peck of salt in the spring around a duced oil in such abundance that it was impossiplum tree, will be found very efficacious in pro- ble to provide receptacles to contain it, and tian friends, who purpose to attend, come in the moting its growth and fruitfulness, and also in therefore the price of oil at the wells was mereprotecting it from disease. Salt is an essential ly nominal, several barrels of oil being given for ingredient in all composted manures intended for plum trees, and is highly promotive of health

The Stuyvesant pear tree in New York city is in full blossom for the two hundred and twen-

## The Oil Wells.

The discovery of petroleum is one of the great incidents of the nineteen century, and stands in the same line, almost, with railroads and telegraphs. It is really a greater benefaction to the human race than gas, for while that, as a household convenience and means of civilization, is confined to cities and large towns, the

considerable and daily increasing.

stock companies are based.

Appearance of the famous Puhole Oil Well .-"A number of men were hewing and hauling logs, and making corduroy roads, to render easier the ascent to the top of the bank. Another number were just putting the finishing strokes to a huge tank to hold twelve handred barrels of oil. Numerous horses, sleighs, and curious visitors were grouped here and there. Still more men were engaged in filling berrels from the receiving tank, and driving off as fast as possible, their places being supplied by other

scores. "Mounting a rough ladder, you get your first

Every couple of minutes the gas-which can be plainly seen issuing from the tube like the engine house, with its trim polished and powerful engine from New-York, looking as demure and innocent as if its ceaseless and powhubbub. No need of an engine now, except to sink another well, for " big well" is a flowing not a pumping one. It runs by nature's gas,

"The men about the well claimed for it a "My dear Paster and Brethren,steady flow of two hundred and twenty five labor been thinking for some time past of visit it, assert that it flows strong two bundred."

Some good farmers advocate deep planting by a well, the artesian driller raises a derrick about ren and sisters in Christ. Not that I do not far too indiscriminately, and they refer to the one hundred and ten feet in height, bringing up enjoy the blessings of christian fellowship here. result of well conducted experiments to prove a steam-engine of about six-horse power, and We are peculiarly blessed, but it is sweet to that it is much better than shallow planting- then, after driving down an iron pice, about six meet with those for whom we feel the dearest. On the contrary, other men will show by experi- inches in diameter through the earth and gravel ments conducted with great care and impartial- some fifty feet or so, to the first strata of rock, ity, that very shallow planting is best, and the introduces a drill of about two and a half inches success of their crops appears to depend upon in diameter attached to a temper screw, and it. The theory and practice of the latter is thence to the "walking beam" and engine, quite as correct as the former, notwithstanding with which he bores now at the rate of eight than at the time of casting in my lot with them, they are directly opposed to each other. But and ten feet a day into the solid slate and soap- and desire to renew my covenant with God and let those farmers change places, and they will stone, say one hundred feet; he then comes to his people. Though unworthy of the great change views with their farms, and still be as the first stratum of sandstone, which may be ten privileges God bestows, I do not wish to be laid opposed to each other as before, yet both be or twelve feet in thickness; and boring through aside as unprofitable but desire to love and serve right. When the soil is friable, sandy, or very this comes again to a slate and soapstone of a him the rest of my days, and through eternity. light, it is best to plant seeds deep, especially in bluish cast; and working on, say for twenty-five dry weather, unless they are so small that they feet or so, he reaches the second stratum of sand- backward, thinking there are so many others to would not be able to reach the surface. This stone, but of which there comes rushing up, if applies particularly to warm, light, sandy, grather right vein is struck, inflammable gas, salt duties, trials come upon me. A deep interest is velly loams, which dry out readily after beavy water, and petroleum. The bore of the well is felt here and some of our most promising young rains. If Indian corn, potatoes, and peas be enlarged by a "cimmer;" and then an iron men have given themselves to God. To see and planted from four to six inches deep, where the tube, in sections of about tourteen feet and close- to hear them declaring the goodness and the roil is pulverized to a good depth, the roots ly screwed together, is inserted by sections and mercy of God, and their determination to serve being deep in ground will absorb moisture while run down to the veins of oil; a flaz-seed bag, him the rest of their days, affords the greatest the surface is quite dry. The young plants find which expands when wet, is fixed between the pleasure. We hope the number of God's minisbut little difficulty in coming up through light tubing and the walls of the well, in order to ters will be increased." porous soils. But where there is excess of water prevent the surface water from descending; a in a heavy soil, if seeds be planted deep, it is "plunger" or valved piston is introduced into frequently impossible for the little plants to force the tube, and the sucker-rod being attached to their way to the surface. This is especially the "walking beam" the conduit pipes and God, for the conversion of our sons and daughtrue of those plants of which the cotyledons are tank, which may hold sixty barrels, being in ters, for the institutions of learning, and the carried up to the service of the soil, as beans, readiness, the engine moves, and the precious cucumbers, flax, and many other plants. On treasure gushes forth. This is what is called covering potatoes, peas, corn and other cereals such as send the oil out spontaneously—the drill ings rest upon you, is the prayer of your weak too deeply; while if covered shallow, unless the must go down into the third strata of sandstone; brother." Surely communications like this,

> wells, those where the oil must be sought-dug for, and others where it presents itself at the surface of the ground. The living ald smoved too

"The pumping wells were discovered some three or four years ago, but soon afterwards very PLUM TREES .- It is said that the application rich flowing wells were discovered, which proone empty barrel. This, of course, ruined the tiplied, and but few flowing wells have been discovered, the price has risen, till now the pumping wells are again being put in operation. One advantage of the pumping wells lies in the fact than that from the flowing wells, being in some cases worth double the price per parrel. In the flowing wells the only product is gas and oil without water, and the gas is allowed to escape freely: stook rang of that well to yo

"The cil, as it comes from the well, is a dirtylooking greenish, viscid fluid, varying in thickness in the different wells, and at present in price from \$10 to \$20 per barrel. " se en di gent

Refining the Oil,-" All the oil as it comes kerosene lamp brightens the remotest farm- from the wells is impure, and is known as crude house. Petroleum, too, has grown to be of vast oil. This must be refined before it is suitable importance commercially, and, as an article of for use. I will attempt a brief description of export, takes rank close beside cotton and the the extensive refinery at Corry, owned by parties in Boston. The first operation is distilling, in Petroleum has a high value as a remedial which the oil is placed in receivers over a coal agent, and its use in the mechanic arts is very fire, and the vapor carried off to a worm, where it is condensed and then drawn off. That which Although oil is said to be found now in almost first comes off is the light oil, and is called napevery State in the Union, in Canada, and Span- tha. There is no dividing line between naptha ish America, yet the great centre of the trade is and oil, but when the operator thinks it is heavy near where it was first discovered Western enough he shuts off the naptha and cal's it oil. Pennsylvania; and it is, we believe, upon the The oil thus obtained by distilling is further real or fictitious ownership of lands in the fa- purified by a course of treatment that also to mous Venango region that most of the petroleum some extent deodorizes it. Lastly, it is carried to iron tanks in the barrelling room, where it is barrelled and shipped .- Abridged from the N. Y. Methodist STA THE STA MONT TESTA

## Correspondence.

Por the Christian Messenger.

The consistent Church-member abroad.—The Western Association.

And are you my friend a member of the view of the oil which has been so rudely dis- Church of God, having been begotten from the the condition both of the weather and her own turbed from its long slumber far down in the dead through the life and power of a risen a two-inch from pipe, with a stream of fluid Christ? Does your business require you to be flowing out as large as a heavy hydrant stream, much from home, and consequently away from and looking like country-house molasses, and of the communion and fellowship of those with in which she had felt an unusual interest. She whom you became connected in the church? Well, have you reported yourself, to your brethwaves of heat—gives the stream a little spirt, ren in your new field of action? That you began to suffer from the disease to which she and then it resumes its even and steady flow. should, is desirable on every account; as you has now fallen a victim. Her constitution strugbeard approaching the tables. Name by plainly would be less likely to leave your first love, and gled against the deadly attack made upon it; would also be adhereing to the urgent recommendation of all our churches. It has occurred mendation of all our churches. It has occurred such hopes were but too fallacious, she quietly set herself to the business of dying; and "Thy erful workings were not the cause of all the greatly cheer and comfort your brethren at home, by sending them an occasional letter, Among some 40 letters, received during the past not by man's steam. How long it will thus quarter, I feel that some of them are too good flow, who knows?—not a man of the many to be packed away. And presuming that an ex-

penning a note to you, intimating my desire to remain a member of the church in Liverpool. How Oil is Struck .- " In selecting a spot for I have frequent desires to meet with my brethties of friendship in Christ's kingdom on earth.

I cannot be present in body, but frequently hold sweet communion with the church at home. Time only strengthens my love for God's people. I therefore love the church in Liverpool, better

There is much work to be done yet. I am

Further on this good young man orges upon us more fervent supplications and prayers to speedy building up of the Redeemer's Kingdom on earth; closing with, " May heaven's blessfrom absent members, to be read at the monthly covenant meetings tell favourably on all concerned. May all church members abroad follow the example of our brother.

THE WESTERN ASSOCIATION, your readers know, will shortly convene at Milton, which place is so contiguous to this town, as to lead us to presume that the influence of the Anniversary will be most sensibly felt among Spirit and love of Jesus; pleading with God to greatly revive his work among us? While the pumping wells; but as the uses of oil have mul- Baptist Churches of Queens are harmonious, and the people, in each and all the localities, very generally attend upon the gospel, as dispensed by the several pastors, the accessions to that the oil obtained from them is much heavier church-fellowship have been small. It should be kept in mind that the Association will commence at ten o'clock, A. M., instead at the more usual hour of two P. M. And let it be remembered that this early hour has been fixed upon that more time may be given to devotional exercises.

A host are expected, from the large-heartedness of the Milton families, and I need not add that Liverpool is not a whit behind our beloved

The Lord Jesus in mercy come up with his people, and make it a season of great spiritual

E N. HARRIS.

Liverpool, May 24th, 1865.

For the Christian Messenger.

## OBITUARY NOTICES.

MATILDA DAYIS,

Died, on the 20th inst., in the 25th year of her age, of rapid consumption, Matilda, second surviving daughter of the Rev. J. Davis, of Charlotte Town, P. E. I. She had her mental gifts; especially a taste for poetical composition. Some of her metrical performances have appeared in the columns of the Messenger. She had made respectable proficiency too in the science of music. But she now sings the new song of heaven, and tunes her harp before the throne of God and the Lamb. In the year 1858 she was baptized, and united to the church in this city, and has maintained an unostentatious, but consistent profession. She loved the means of health might well have excused her. She appeared among her Christian friends for the last time on earth at a weekly prayer-meeting ; and left it, as it afterwards appeared, to pass, ere long, to the great praise-meeting of the skies. and hopes were long cherished that she might be restored to health. Aware, at length, that will be done !" became the habitual posture of her spirit. Her great concern was, in the pros-pect of a change of worlds, that her religion should prove to be of the right kind; and be brought into action at the right time. "I suppose I needed this chastisement," she once said; at once acknowledging her evil deserts, and imbut only the Omniscient and Omnipotent Power who made the oil, and who has so mysteriously concealed it in the earth until man's need for it will you please give it a place in the Christian ed, at times, almost afraid to think that one so unworthy as she should ever find acceptance at

the throne of grace;" and yet the manifold invitations of Scripture, addressed to sinners as such, emboldened her to draw near that she might live. Toplady's famous hymn on the "Rock of Ages" now became especially dear to heart. Only the day before her death she protessed, that she found "self all gone: she looked for ALL in Christ," She was once somewhat disturbed, because she found it difficult to think of God as a Father, while it was delightful to approach to him through the Son. Her scrue. ples on this point were effectually relieved by a reference to John xiv, 1-14. Then, again, she was afraid, lest she should think too much of herself, and too little of the spiritual welfare of others. She was reminded in reply to this suggestion, that her immediately pressing duty was, to look well to her own soul; and that, while she attended to this she might cheerfully commend herself to Christ, with all whom she loved, and all the interests that were precious in his sight. These hints show the jealous self scruting with which, eternity just before her, she looked in upon her own heart. She wanted to get very near to God, and felt that she could not get too near. She thought much, too, of some who had gone before her to heaven, and pleased herself with the thought of meeting them there as well. as her Lord. And there she now is, rejoicing in her blessedness newly found, and beckening to those to follow her whom she has left behind. Two expressions which fell from her lips as she approached her end may here be added. To some young friends, calting to bid her farewell, she said, "What an awful thing it would be to lie on a dying bed without Jesus!" To another friend she said, "I am sinking fast, What a blessed thing, there is light beyond!" Yes ! " light !" glorious light ! in ineffable contrast with the twilight in which we here grope along. To that light may all who read this notice, especially the youthful acquaintances of the departed resident in these Lower Provinces, pitimately attain. Then will she not have lived nor died in vain. Yea, her early death may prove a greater blessing than would have been her prolonged life.

J. DAVIS. Charlotte Town, P. E. I., May 21st. [Christian Visitor will please copy.]

Dear Brother Selden,

Death is rapidly thinning our ronks in this egion. The three brethren of whom I now urnish brief Obituaries, living near each other, tied within the space of five days-the two ormer within about three hours.

Yours in gospel bonds, CHARLES TUPPER. Tremont, Aylesford, May 23, 1865.

DEACON CALVIN BAKER

Joined the Baptist Church in this place more than 36 years ago. He constantly retained his membership, and was a Deacon for many years, He was highly esteemed as a faithful and zealous servant of the Lord.

Deacon B. was a remarkably hospitable man. The ministers of Christ, and religious people in general, were ever readily received and kindly entertained by him and his pious companion. They both evidently took delight in waiting upon such persons. Indeed, the stranger and the needy ever found an asylum in their habitation.

These valued disciples were accustomed to aid each other in maintaining family worship, and also in keeping up prayer meetings. They enjoyed the peculiar satisfaction of seeing all their children, eight in number, profess conversion, and unite with the Church to which they

Toward the close of life bro. Baker seemed at times, through bodily infirmity, unlike his former self in some respects. With reference to religious exercises, however, he appeared quite at home. The genuineness of his piety was never questioned by the writer.

On Lord's day, May 14th, (inst.) in the firm assurance of everlasting life, he closed his mortal career, at the age of 71 years, leaving a widow and 7 children. "Blessed are the dead who die in the Lord.

(Christian Visitor please copy.)

DAVID SAUNDERS, JUNE.

Son of David and Elizabeth Saunders, of Tremont, Aylesford, was also removed by death on Lord's day, May 14th, in the 80th year of

On the 29th day of August, 1851, while on a load of hay that was driven over rough ground, he was thrown off, and two hay-forks, which were on the load, entered his body. The writer, who had then recently commenced his labors in Aylesford, found him in great distress, both physical and mental. It appeared that this youth—16 at that time—had previously entertained a hope in Christ; but thad failen into a state of backsliding, and now felt greatly alarme, ed in the prospect of immediate death. After a season of deep disquietude, he again found consolation in the blessed Jesus.

To the astonishment of all acquainted with the circumstances, including his medical attendad ants, he partially recovered. Being of an industrious disposition, he betook himself to the use of the reedle, and did a great amount of very neat and ingenious work while lying on his" bed, After a length of time he so far recovered as to sit up some in a chair, and subsequently to walk a little with crutches.

Under all his afflictions David evinced extraordinary patience. He was fond of religious reading, and gladly embraced every opportunity in his power to attend public worship. He became a special favorite with the family and the neighbors. Having lived in this enfeebled state