Wednesday......August 31, 1864.

881

ARTESIAN WELLS-SUBTERRANEOUS RESERVOIRS.

The subject of artesian wells is one of very much interest, just now, to the inhabitants of this city, and of the Territory generally.

Strenuous efforts are being made to raise sufficient means to procure the necessary boring apparatus and make the experiment of sinking one or more, in pursuance of the resolution adopted at the late Mass Meeting. The amount of encouragement, thus far, places the matter beyond a doubt that the imimportance of the undertaking is generally realized, and that we will soon be in a position to test the practibility and value of wells of this description. The process of boring artesian wells is, in the main, very simple. A cutting instrumentchisel-of a size proportionate to the diameter of the bore, is employed for forcing its way down from the surface of the earth, being driven through the various strata with a force applied above, which is increased as the opposition the chisel meets from rocks or other hard substances becomes greater. A sort of cylindrical auger, fitted with a valve, is next employed to draw up the dirt, cuttings, gravel and pieces of rock, left in a loos ned state when the claisel is drawn out. This process is continued until the water is reached. The inside is then cased, as far down as may be deemed necessary, by a piping, jointed as it is inserted, to protect the well from the falling of gravel, sand or loose matter from the upper strata, and to prevent waste by leakage or other causes. The well is then ready to fur mish its supply of water. In boring the famous artesian well at Grenelle, in France, a hollow tube was used for passing through the softer material, and a chisel-shaped tool was employed to penetrate the chalk and flint through which it had to pass. The importance and utility of artesian wells have been tested for centuries, though it is of later years that they have been so extensively and widely employed. France has the credit of being the pioneer in using them, the name being derived from the ancient province of Artois, where, it is stated, the first practical they are very numerous in that country, much of the water supply of Paris being obtained by this means. They are used in England, in

combine, form rills of greater maguitude, and independent of foreign importations. wherever it can; hence the springs that rise up round. spontaneously or when wells are dug to a Elders George A. Smith, Joseph Young, Sr, limited depth; and all that is necessary to H. S. Eldredge, Wm. S. Muir, Thos Bullock, ox wagons, crossed the Weber yesterday procure an abundant supply of water is to tap George Thatcher, L Young and Bishops morning, and will arrive in town to-morrow. these internal reservoirs.

near London, in England. The workman, we had seen, heard and tasted. when he had descended close upon 600 feet saw signs of approaching the main spring, and gave instructions for being raised with rapidity as soon as he gave the signal. Upon given, yet so rapidly did the water rise that it was with difficulty he escaped being drowned. night showed how attractive a piece it is. Though the well was a wide one, intended for a draw-well, the water rose for about fifty the performance was for the beach: of the feet almost as fast as those above could bring him up. It gained a height of 200 feet in twenty-four hours, and afterwards rose about a foot an hour till it attained its altitude. The artesian well, at Grenelle, threw out, and conper hour, through a six inch bore.

teraneously in small veins, which, as they to assist the Latter-day Saints in becoming

force it to seek an outlet above, which it does by 38 feet, two stories high, with verandah all camped at Marysville, about 100 miles out

Woolley and Sharp and Col. Ross, were of the A remarkable instance of the force with company who went with the President. After which such water will rise when an outlet is assisting to do justice to an excellent dinner; to take items, he saw a man named Snydermade for it occurred in the digging of a well we returned to the city well pleased with all

THEATRICAL. - The "Duke's Motto" was repeated on Wednesday and Saturday evenings last, each time with increasing interest. striking the water the appointed signal was In some parts there was a visible improvement, and the immense audience of Saturday Last night-the closing one of the season-Ladies and Gentlemen of the Association The bill was an exceedingly attractive one, early to press we cannot offer any rem whe on during the first week of its session. tunity offered of witnessing a rehearsal we have no doubt that it was very fine.

[AUGUST 31, 1861.

NEWS FROM THE FRONTIERS. - By the politeness of Wm. S. Godbe, Esq., we are enthus continue till they find a perous stratum, On our return we visited President Young's abled to give the following:-Yesterday mornsupported upon one of greater density where farm, where everything is kept in "apple pie ing Mr. Godbe received a dispatch from his they rest, forming a subteraneous reservoir erder," and we have no hesitation in saying agent at Atchison to the effect that Emerson ready for use when it can be reached. The that there is the best farm house in the Terri- Shirtleff, J Chinn, Mr. Truman and John Worpressure exercised upon it by being thus con tory, situated too in the prettiest rural retreat ley, freighters for Mr. G, and Mr. Cranda'l, fined, with the ever constant additions to it, we ever visited. The house is, we believe, 88 freighting for Walker Brothers are all enfrom Atchison, waiting for an esco.t.

Claudius V. Spencer, with a train of twelve

DRUNK AGAIN-As our reporter passed down East Temple Street yesterday morning, said to be an excellent book-keeper when sober,-lying drunk under the balcony of Sait Lake House. Police Constable Dewey and assistant escorted him to the lock-up. Snyder is reported to be on a big burst, having been "tight" for the last week or ten days. Our reporter saw him stagge ing down the sidewalk on Monday, cutting and sawing the air, and otherwise pitching into som thing that he imagined to be occupying space above and around him.

COUNTY SUPERINTENDENTS .- We call the "Don Cæsar de Bazan," and the fairy ex ra- attention of those concerned to the notice of vaganza of "Beauty and the Beast" being Superintendent Robt. L. Campbell, found in presented. We were pleased to see a crowded another column. County superintendente tinues to do so, over 600,000 gallons of water house on the occasion, a tribute both to the should attend to this matter wi hout clay, as Members of the Association and the care they are required by law to make reports to with which the Management caters for the the Territorial Superintendent by the first of public gratification. In consequence of going November, and he to the Levislative Assembly

THE DESERET NEWS.

What the geologic strata are through which the boring would have to pass here, and consequently the depth to which it would require to go, it is impossible at present to say; but the performances, but judg og from an opporwhen the great African desert could be successfully penetrated and its hidden stores of

water brought to the surface, where but a few pointed out that there was water ben ath, Aug. 27ch, that they were "all right." They the enterprising farmer than in any o'h r which threw up those refreshing springs in the midst of an almost illimitable desert, we have the strongest grounds for believing that the necessary fluid can be reached here where there are such abundant sources of feeding the reservoirs beneath. The heavy and continual influx of waters to the Lake west of us, by the inpouring of the various rivers which apparently add nothing to its volume, indicate the existence of an evaporation of no ordinary character. Hence, from that quarter nearly all our rain and snow storms come, which, attracted by those immense condensors, the mountains, east and west of us, fall in rain or snow, the heaviest portion of which lights upon the mountains. This, percolating downwards must form into large bodies of water underneath, the surface water not being

Our IMMIGRATION - Capt. W. S. Warren and Capt. Canfield is probably near them, for they were together at Cottonwood springs.

Capt. J. S. Rollins was at Deer creek, 411 teams doing well." Nine of their oxen died between Laramie and Deer creek, but that does not seem to have materially checked their progress, for they also are making good time. rived on the 26th inst. Three dults and two children died on the road, and br. Sidney Beckstead, frem Goshen, Utah county, was while on guard 12 miles this side of Platte bridge.

DESTRUCTIVE FIRE. - About 2 o'c'ock on and poor, yet if 16,000 acres were brought diffused over so large a portion of space as in Monday morning a fire broke out in the store into successful cultivation many thousands countries where rains are more frequent and room and stables of Mr. John M. Bollwinkel, of persons would be benefitted thereby. These gentler. We have evidences of this in the and although there was scarcely a breeze to is land enough and water sufficient to enable numerous springs that feed our streams and be feit at the time, the flames could not be an enterprizing farming population to raise enrich portions of the soil in the valley. All subdued until the roof, the entire wood work bread for 30,000 persons. application of the principle was made. Now, that is necessary is to reach these reservoirs and most of the loose property inside were re- We understand that there is in the vicinity by boring, and the much-desired water will be duced to ashes. Among the articles destroyed of Deseret an excellent summer range for were sixteen sets of harness and a number of stock, and the winter range is as good as any large military tents. The cause of the fire is other in the Territory. Clear Lake, a pond not known, but it is thought probable that of bad mineral water situated about eight some carelessness on the part of those con- miles from the settlement, is surrounded with great Sahara, of its fearful terrors to the companying President Brigham Young on a nected with Mr. B's freight train which ar- extensive meadows, from which thousands of rived on Sunday afternoon, was the cause of tons of hay can be cut annually. At a disthe fire. Mr. B. estimates the damages at rance of twelve miles there is plenty of Cedar \$4,000: suitable for firewood, which can be oblained without going into the kanyons at alt. Pine POLICE REPORT.-John Cahooa was arresttimber in great abun lance, adapted for building purposes, is accessible within twenty and western slopes, those in Missouri and 100 lbs. of cotton yarn per day, with only two battery on Thomas Hulett. He was brought miles. The winters are mild, and it is believed that all the varieties of fruit that will. eaterprising citizen of the neighboring Terri- the working of more than two frames at a leaving the court room he again assaulted grow in Filmore, can be successfully culifvated in Descret city.

DESEBET CITY .- We have been favored with the perusal of a letter from this newly settled region, in which the writer speaks highly of the location, and expresses the oases, at immense distances from each other, telegraphed from 62 miles beyond Laramie, opinion that there are greater facilities for are making good time, some 15 miles a day, part of the Territory. Of course, he can only speak of those parts of the Territory he has visited, but it is a good feeling to have of ene's home. The dam made acreas the Sevier miles from here, on the 26th, "passengers and river for the purpose of turning the water on to the arable land, has cost the inhabitants much labor and means, having been washed. away three consecutive years, but it is now. believed to be a permanent affair, and water Capt. John R. Murdock's mule train ar- proof at that. Probably the entire cost of this dam has not been less than \$10,000, besides the lesses sustained on account of the failure of crops by reason of insufficient irrikilled by the accidental discharge of his rifle, gatien. The res uses of that district of country, and its capability to sustain a large population are not yet known. Though the land varies, in quality, being good, middling

obtained.

Asiatic and Southern European Russia, in PRESIDENT YOUNG'S COTTON AND WOOL-Egypt, and they have measurably robbed the LEN FACTORIES .- We had the pleasure of actraveling caravans, which often left their en- visit to his cotton and woollen factories at the tire companies, camels and human beings, one mouth of Parley's Kanyon, on Monday aftermass of death-stricken victims in its burning noon. The machinery is of the newest style, and thirsty sands. They are also being ex- and possesses all the advantages of the latest tensively and successfully bored in various improvements. The superintendent of the parts of the United States, both on the eastern works informed us that they are now making ed on the 25th for committing an assault and California being the most prominent; and an frames running. Scarcity of water prevents before Alderman Clinton and fined \$7,50. On tory of Nevada is sinking one close to Carson. time, which must be a great disadvantage to Hulett, by kicking him, for which he was

The question of greatest interest with us is the proprietor. If all the four frames could fined \$15. Very moderate for such an offence. net, what the cost of the experiment will be, be worked at once they would turn out 200 Elijah Maxfield was arrested on the eveba', will that experiment be successful. Ibs. of good marketable yarn every day; and ning of the 27th, charged with disorderly con-Under the most favorable circumstances the there is abundance of raw cotton on hand. duct at er in the Theatre, for which he was probabilities of success would be well worth The woollen factory is in full blast, and it is fined \$5. the outlay, situated as we are, to test their astonishing to those unacquainted with Elbridge Tufts, was also arrested for being following cheering paragraphs: practibility here. But we think the reasons machinery, to observe the rapidity with which drank and disorderly at the Theatre. Fined for believing they will be successful are very wool is picked, carded and spus, and we hope \$7,50.

strong, and such as give good hopes of a suffi- yet to see the day when we shall be able to Two Israelites, half broth rs, supposed to specimens, and I think that soon we shall be cient supply of water being obtained at a do as they do in some of the large factories in be of the kingly trive of Judah, merchants or able to come up with similar clubs in ear reasonable outlay. the eastern States and in Great Britain, where dealers in ready made clothing, on the west sister cities.

which fall on the mountains around us do not upper story and bring out the cloth in the family quarrel on Monday afternoon, and that we are blest with. Our small grain is, all descend in the form of streams to the lower part of the factory in an incredibly finally from words to blows. They are said pretty much secured, and every thing is maxto have fought bravely. When brought be- ing on finely. valleys beneath is very evident. No doubt short time. CARLES SPARTS much is evaporated and again ascends to the Considering the disadvantages under which fore the Doctor they gave the names of John Bouquers .- We have received from Mr. atmosphere, another portion is absorbed in we have labored, since the first settlement of Ray and Richard Doe, not wishing their real Charles H. Oliphant two pretty bouquets, supporting the vegitation on the mountains these valleys, we think this machinery and names to be known, and not knowing them doubtless selected with a view to their dolland in the kanyons, while another portion un- factory a credit to the Territory, and one of ourselves we cannot give them, but perhaps cacy of colors, and consisting of choice Deldoubtedly fixis its way down vards, filtering the many proofs of the enterprize of our others can. One was fixed \$15 and the phiniums, Snop dragons and Asters. Mr. through the various strata and uniting sub- President, and of his constant study and labor other \$10. Oliphant will please accept our thanks.

We wish success to the good folks of Deseret.

SPANISH FORT. -- In a fletter from Spanish Fork, we find, among other good things, the

The Gardener's club at this place, is in a presperous condition; the members are active and striving to compete with each other in

That the great quantities of snow and rain they take a bale of wool or cotton in at the side East Temple street, got into a sort of are good, swing to an abundance of water