Acidizing oil wells pdf

I'm not robot!

Oil Field Worker ROBERT SMITH

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Objective

Oil Field Worker with 2+ years of experience Rig Hand. Experience working as a floor hand on a service rig and has interest in developing their derrick hand skills as well.

Skills

Work Well Under Pressure, Communication Skills, Management Skills.

Work Experience

Oil Field Worker

ABC Corporation - November 2014 - March 2015

- · Hooked cranes up to oil rigs take them apart and move them.
- Learned what its like to not get lunch all the time.
- · Worked harder and harder every day to keep moving up.
- Used Heavy lifting, hammers, sled hammers, heavy equipment, 16 hours shifts barely any breaks.
- Assisted in day-to-day drilling operations.
- Assisted in managing the central operations center.
- Assisted in the creation of a new asset inventory system.

Oil Field Worker

Delta Corporation - 2013 - 2014

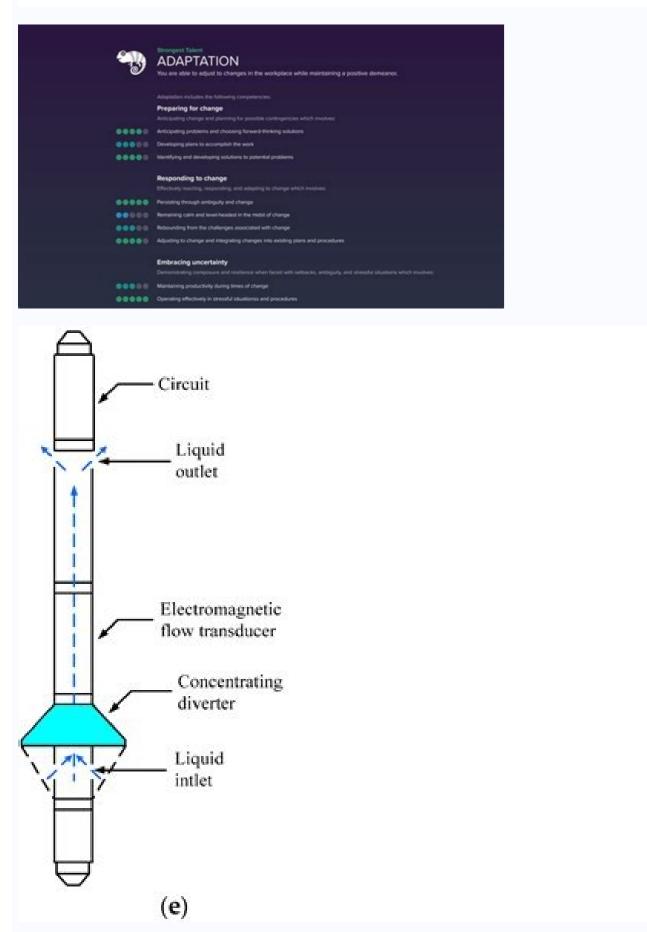
- Oil fill services Equipment operator Truck driver Pumped cement into oil rigs to secure casings Frac-worker.
- Roustabout Operated Machinery ACHIEVEMENTS Graduated from All-State Career with perfect attendance and 3.6 GPA (92%) Possesses Class CDL with HazMat.
- Maintain Drilling operations, Rig operations, Payroll, Crews, Transporting of the rig.
- Had a little more responsibility with overseeing and managing guys with a work task and
 ensuring they were done as fast as possible.
- As before I had an accomplishment of heating homes, giving people electricity, and fuel for ears/trucks.
- Assisted in assembly, disassembly, and transportation of drilling machinery and service equipment.
- Performed general rig maintenance Cleaning rig floor, chipping, and painting.

Education

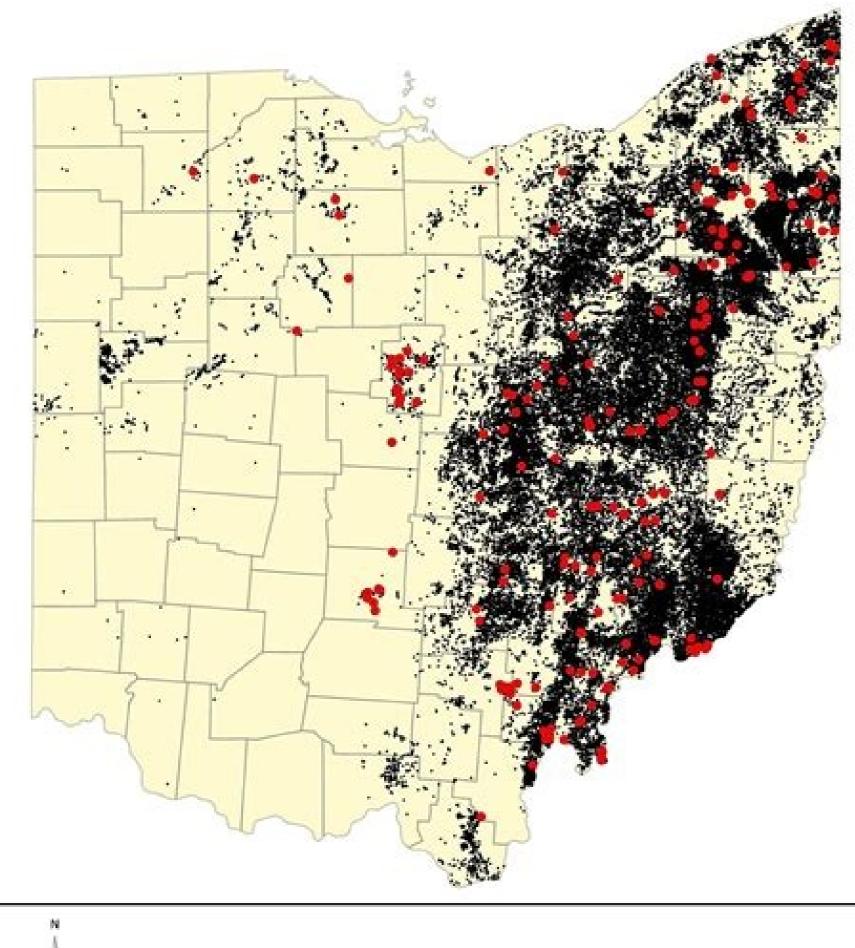
High School Diploma

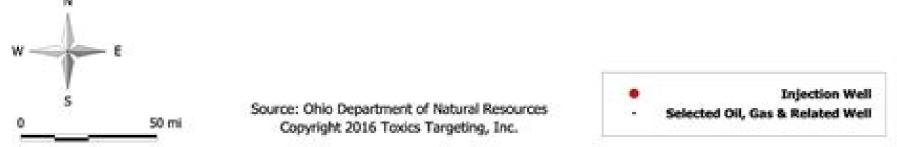
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(f)



Ohio Oil, Gas and Injection Wells





Robert Smith

Division Order Analyst

PERSONAL STATEMENT

Distinguished career is showcased by an impressive record of achievement in executive support, office administration, organizational processes and operations, and building company value. A catalyst for instilling a sense of urgency to overcome obstacles, resolve problems and move initiatives forward to pursue and achieve performance excellence.

WORK EXPERIENCE

Division Order Analyst

ABC Corporation - September 2010 - January 2011 Responsibilities:

- Responsible for the creation and maintenance of record title ownership division of interest in both billing and revenue.
- Processed all probate information and transfer documents form interest owners in order to maintain a correct division of interest.
- Maintained and corrected divisions of interest when payouts and recompletions occur.
- Analyzed title opinions, land contracts, operating agreements, oil and gas leases, broker reports, curative, well and regulatory documents, conveyances, probate, and heirship data, and other legal documents to determine ownership and lease burden relationships for production proceeds from oil and gas wells.
- Worked with landsmen to clear and secure the title.
- Built and maintained division order files and division order log.
- Coordinated with accounting to ensure proper and timely distribution of revenues and deck preparation.

Division Order Analyst

Delta Corporation - 2007 - 2010

- Responsibilities:
- Administrative Assistant with some knowledge of title and curative Assist Analysts in preparation of Division Orders as well as setting up wells.
- Assist Owners with their guestions relating to their ownership Responsible for entering and activating EFT information for owners Maintain City.
- Curative and owner maintenance.
- Helped the Arkansas side of Property Administration get caught up on aging maintenance items.
- Division of Interest Set up and maintain revenue and JB decks Owner maintenance and transfers Special.
- Balance individual well ownership, prepare and maintain division orders by well Team members for creation, testing, and implementing new computer.

CONTACT DETAILS

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SKILLS

Microsoft Excel, Planning, Analyst, Communication.

LANGUAGES

English (Native) French (Professional) Spanish (Professional)

INTERESTS

Climbing Snowboarding Cocking Reading

REFERENCES

Reference - 1 (Company Name) Reference - 2 (Company Name)

· Establish ownership records through analysis of title opinions and other legal documents Make unit revisions based on changes of ownership

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Largest oil well. Deepest oil wells in the world. First oil wells in the world. Oil wells in world.

Wells may perform poorly or less than expected due to three factors: Inefficient mechanical system (wrong size tubing in a flowing well or inefficient artificial lift equipment for pumping or gas lift wells) Low reservoir permeability Wellbore restriction because of formation damage or incomplete perforating If the problem is formation damage, then matrix acidizing may be an appropriate treatment to restore production. This page discusses ways to evaluate whether a well is a good candidate for acidizing candidate for acidizing candidate is any well producing from: Formation with permeability greater than 10 md Permeability greater than 10 md Permeability of which in the near-wellbore or near-perforation region has been reduced by solid plugging. This plugging can be either mechanical or chemical. Mechanical plugging is caused by mixing incompatible fluids that precipitate solids. If formation damage is the cause for poor production, the well is a good candidate for acidizing. Formation damage. Evaluate damage Several methods can be used to evaluate the presence of damage. Production history plots that show sudden change, and gradual change Offset well comparison Pressure buildup tests Well performance analysis Production rate/time plots are normally available for oil/gas wells that show change of rate with time and that note significant events such as workovers and stimulation treatments. Damage is revealed by at least three different characteristics as previously listed. The first is a sudden change in produced brine was used to kill the well during a workover to repair a tubing leak. In this example, formation damage is obvious in the reduced productivity immediately after the workover. This lowered productivity persisted until an acid treatment removed the damage. Many times the analysis of a damaged condition is not so obvious. Fig. 1—Productivity immediately after the workover).[1] A depletion-type history curve may decline at a certain rate, as shown in Fig. 2. [2] This well followed a certain decline rate and then began to decline faster as shown by the change in slope. This is often characteristic of scale buildup around the wellbore from produced water. This well was diagnosed and treated with hydrochloric (HCl) acid to dissolve calcium carbonate scale, and production rate was restored. Fig. 2—Production history graph-change in slope:scale buildup (after Farina).[2] Some changes occur so slowly over time that productivity. Fig. 3 shows this overlay for two California wells. Increasing water production called attention to one well, and testing revealed a casing leak in this well. [1] Fig. 3—Production history graph-overlaying graphs to detect damage.[1] Offset well comparisons. The productivities of offset wells are selected for acidizing. Many times, this selection is made without sufficient well testing. Pressure buildup testing may be too expensive in terms of lost production during long shut-ins, or well interference may circumvent reliable long-time pressure data. Table 1 shows such an offset comparison. [3] On the basis of production only, three wells are acidizing candidates. However, when one compares the formation potential through log analysis, as expressed by net porosity feet, only one well is a reliable acidizing candidate: Well B-1. Acidizing all three wells on the basis of production rate alone may provide only a 33% success. In waterfloods, it is also important to compare effective reservoir pressures around each well or to compare the injection rates from adjacent water injection wells. If a well's water injectivity is low, production will be less in the offset producing well. Pressure buildup tests provide a reliable measure of reservoir permeability and wellbore condition (skin factor, S). The skin factor, S, when positive, indicates restricted flow; however, the restriction is not necessarily formation damage. A skin factor of 5 to 20 or more can result from inadequate perforation size and/or low shot density when combined with either non-Darcy flow cause high skin factors by themselves and can amplify the restriction caused by limited perforating. Such an example is shown in the buildup test in Fig. 4. [3] See the chapter on fluid flow in the reservoir engineering section of this handbook for more details on this type of plot. Fig. 4—Pressure buildup of a south Texas gas well.[3] This gas well was perforated with sufficient underbalance to achieve clean undamaged perforations, yet the skin factor from the pressure buildup test was 11. Well flow analysis showed that this skin was caused mainly by high-velocity flow of gas into small perforations created by the small through-tubing perforation from the pressure buildup test was 11. result of limited perforating and two-phase-flow effects. One gas condensate well had a skin factor of 29, which was the result of liquid saturation buildup and non-Darcy flow around the wellbore after a compressor was installed to pull the well harder. because of a solution gas/oil ratio (GOR) over 1,200 scf/bbl and a high pressure drawdown. Acidizing such wells have caused productivity decreases because acidizing; therefore, use the checklist shown in Table 2 before selecting acidizing candidates on the basis of high skin factors alone. [3] A skin factor can be analyzed by well flow analysis to show when it is caused by the previously described effects or when it is the result of permeability damage. An example of such a damaged well is shown in Fig. 5. [3] This figure shows predicted gravel-pack pressure drop vs. flow rate for different effective shots per foot (perforations). This well was perforated adequately and should have produced much better after completion, and a standard acidizing treatment was used to dissolve the damage. Performance significantly improved, as shown by the reduction of completion pressure drop and increase of flow rate in this gas well. Fig. 5-Well completion analysis. [3] References 1.0 1.1 1.2 1.3 McLeod Jr., H.O., Ledlow, L.B., and Till, M.V. 1983. The Planning, Execution, and Evaluation of Acid Treatments in Sandstone Formations. Presented at the SPE Annual Technical Conference and Exhibition, San Francisco, California, 5-8 October 1983, SPE-11931-MS., 1 2.0 2.1 Farina, J.R. 1971, An Approach to Estimating Skin Damage and Appropriate Treatment Volumes, Proc., 18th Annual Southwestern Petroleum Short Course Association, Lubbock, Texas, 53-57, 1 3.0 3.1 3.2 3.3 3.4 3.5 McLeod, H.O. 1989, Significant Factors for Successful Matrix Acidizing. Presented at the SPE Centennial Symposium at New Mexico Tech, Socorro, New Mexico, 16-19 October 1989. SPE-20155-MS. Use this section to list papers in OnePetro that a reader who wants to learn more should definitely read External links Use this section to provide links to relevant material on websites other than PetroWiki and OnePetro See also Matrix acidizing Formation evaluation for acidizing PEH:Matrix Acidizing PEH:Matrix Acidizing Category Access through your institutionVolume 19, Part B, 1989, Pages 161-190 08)70504-1Get rights and contentView full text Skip to Main Content View full text Skip t T, Stenstrom MK, Suffet IH. Toxicity of acidization fluids used in California oil exploration. Toxicol Environ Chem 2017; 99: 78-94.10.1080/02772248.2016.1160285Search in Google ScholarAghajafari AH, Shadizadeh SR, Shahbazi K, Tabandehjou H. Kinetic modeling of cement slurry synthesized with Henna extract in oil well acidizing treatments. Petroleum 2016; 2: 196-207.10.1016/j.petlm.2016.03.004Search in Google ScholarAhmed D, Haryanto E, Soendoro FH, Baez F, Bolanos N, Zhou W. An innovative approach to forecasting matrix stimulation treatment results: a case study. SPE-168157-MS. SPE International Symposium and Exhibition on Formation Damage Control, Lafayette, LA, 2014.10.2118/168157-MSSearch in Google ScholarAli SA, Saeed MT, Rahman SU. The isoxazolidines: a new class of corrosion inhibitors of mild steel in acidic medium. Corros Sci 2003; 45: 253-266.10.1016/S0010-938X(02)00099-9Search in Google ScholarAljourani J, Raeissi K, Golozar MA. Benzimidazole and its derivatives as corrosion inhibitors for mild steel in 1 M HCl solution. Corrosion Sci 2009; 51: 1836-1843.10.1016/j.corsci.2009.05.011Search in Google ScholarAlmutairi S, Al-Obied MA, Al-vami I, Shebatalhamd A, Al-Shehri DA. Wormhole propagation in tar during matrix acidizing of carbonate formations. SPE-151560-MS. SPE International Symposium and Exhibition on Formation Damage Control, Lafayette, LA, 2012.10.2118/151560-MSSearch in Google ScholarAlvarez JM, Rivas H, Navarro G. An optimal foam quality for diversion in matrix-acidizing projects. SPE-58711-MS. SPE International Symposium on Formation Damage Control. Lafayette, LA, 2000.10.2118/58711-MSSearch in Google ScholarAmin MA, Khaled KF, Mohsen O, Arida HA. A study of the inhibition of iron corrosion in HCl solutions by some amino acids. Corrosion Sci 2010; 52: 1684-1695.10.1016/j.corsci.2010.01.019Search in Google ScholarAmro MM. Extended matrix acidizing using polymer-acid solutions. SPE-106360-MS. SPE Technical Symposium of Saudi Arabia Section, Dhahran, Saudi Arabia, 2006.10.2118/106360-MSSearch in Google ScholarAndre L, Rabemanana V, Vuataz FD. Influence of water-rock interactions on fracture permeability of the deep reservoir at Soultz-sous-Forets, France. Geothermics 2006; 35: 507-531.10.1016/j.geothermics.2006.09.006Search in Google ScholarAndre L, Rabemanana V, Vuataz FD. Influence of water-rock interactions on fracture permeability of the deep reservoir at Soultz-sous-Forets, France. Geothermics 2006; 35: 507-531.10.1016/j.geothermics.2006.09.006Search in Google ScholarAndre L, Rabemanana V, Vuataz FD. Influence of water-rock interactions on fracture permeability of the deep reservoir at Soultz-sous-Forets, France. Geothermics 2006; 35: 507-531.10.1016/j.geothermics.2006.09.006Search in Google ScholarAndre L, Rabemanana V, Vuataz FD. Influence of water-rock interactions on fracture permeability of the deep reservoir at Soultz-sous-Forets, France. Geothermics.2006; 35: 507-531.10.1016/j.geothermics.2006.09.006Search in Google ScholarAndre L, Rabemanana V, Vuataz FD. Influence of water-rock interactions on fracture permeability of the deep reservoir at Soultz-sous-Forets, France. Geothermics.2006; 35: 507-531.10.1016/j.geothermics.2006.09.006Search in Google ScholarAndre L, Rabemanana V, Vuataz FD. Influence of water-rock interactions on fracture permeability of the deep reservoir at Soultz-sous-Forets, France. Geothermics.2006; 35: 507-531.10.1016/j.geothermics.2006.09.006Search in Google ScholarAndre L, Rabemanana V, Vuataz FD. Influence of water-rock interactions on fracture permeability of the deep reservoir at Soultz-sous-Forets, France. Geothermics.2006; 35: 507-531.10.1016/j.geothermics.2006.09.006Search in Google ScholarAndre L, Rabemanana V, Vuataz FD. Influence of water-rock interactions on fracture permeability of the deep reservoir at Soultz-sous-Forets, France. Geothermics.2006; 35: 507-531.10.1016/j.geothermics.2006.09.006Search in Google ScholarAndre L, Rabemanana V, Vuataz FD. Influence of water-rock interactions on fracture permeability of the d Experimental improvement of nano-enhanced oil recovery using nano-emulsions. Arabian J Sci Eng 2014; 39: 6453-6461.10.1007/s13369-014-1258-5Search in Google ScholarAnsari A, Haroun M, Rahman MM, Chilingar GV. Electrokinetic driven low-concentration acid improved oil recovery in Abu Dhabi tight carbonate reservoirs. Electrochimica Acta 2015; 181: 255-270.10.1016/j.electacta.2015.04.174Search in Google ScholarAssem AI, Nasr-El-Din HA, Wolf CD. A new finding in the interaction between chelating agents and carbonate rocks during matrix acidizing treatments, Woodlands, Texas, USA: SPE-164130-MS. SPE International Symposium on Oilfield Chemistry, 2013.10.2118/164130-MSSearch in Google ScholarBächler D, Kohl T. Coupled thermal-hydraulic-chemical modelling of enhanced geothermal systems. Geophys 2005; 161: 533-548.10.1111/j.1365-246X.2005.02497.xSearch in Google ScholarBaddini ALQ, Cardoso SP, Hollauer E, Gomes JACP. Statistical analysis of a corrosion inhibitor family on three steel surfaces (duplex, super-13 and carbon) in hydrochloric acid solutions. Electrochim Acta 2007; 53: 434-446.10.1016/j.electacta.2007.06.050Search in Google ScholarBartko KM, Chang FF, Behrmann LA, Walton IC. Effective matrix acidizing in carbonate reservoir - does perforating matter? SPE-105022-MS. SPE Middle East Oil and Gas Show and Conference, Manama, Bahrain, 2007.10.2118/105022-MSSearch in Google ScholarBazin B. From matrix acidizing to acid fracturing: a laboratory evaluation of acid/rock interactions. SPE-66566-PASearch in Google ScholarBazin B. From matrix acidizing to acid fracturing: a laboratory evaluation of acid/rock interactions. SPE-66566-PASearch in Google ScholarBazin B. From matrix acidizing to acid fracturing: a laboratory evaluation of acid/rock interactions. productivity and injectivity of oil and gas producing formations. J Can Pet Technol 2002; 41: 29-36.10.2118/02-11-DASSearch in Google Scholar PubMed Bottero S, Adler PM. Deposition in porous media and clogging on the field scale. Phys Rev 2005; 71: 016311-01-016311-19.10.1103/PhysRevE.71.016311Search in Google Scholar PubMed Bottero S, Picioreanu C, Enzien M, van Loosdrecht MCM, Bruining H, Heimovaara T. Formation damage and impact on gas flow caused by biofilms growing within proppant packing used in hydraulic fracturing. SPE 128066, 2010 SPE international symposium and exhibition on formation damage control, Lafayette, LA, 2010.10.2118/128066-MSSearch in Google ScholarBrassington FC, Whitter JP, Macdonald RA, Dixon J. The potential use of hydrogen peroxide in water well rehabilitation. Water Env J 2009; 23: 69-74.10.1111/j.1747-6593.2008.00132.xSearch in Google ScholarBuijse M, de Boer P, Breukel B, Klos M, Burgos G. Organic acids in carbonate acidizing. SPE European Formation Damage Conference, The Hague, the Netherlands, 2003.10.2118/82211-MSSearch in Google ScholarBybee K. A new hydrofluoric acid system improves sandstone matrix acidizing. J Pet Technol 2000; 52: 34-35.10.2118/0300-0034-JPTSearch in Google ScholarCardoso SP, Gomes JACP, Borges LEP, Hollauer E. Predictive QSPR analysis of corrosion Inhibitors for super 13% Cr steel in Hydrochloric acid. Braz J Chem Eng 2007; 24: 547-559.10.1590/S0104-66322007000400008Search in Google ScholarChang FF, Nasr-El-Din HÅ, Lindvig T, Qui XW. Matrix acidizing of carbonate reservoirs using organic acids and mixture of HCl and organic acids. SPE-116601-MS. SPE Annual Technical Conference and

Exhibition, Denver, CO, 2008.10.2118/116601-MSSearch in Google ScholarChikh ZA, Chebabe D, Dermaj A, Hajjaji N, Srhiri A, Montemor MF, Ferreira MGS, Bastos AC. Electrochemical and analytical study of corrosion inhibition on carbon steel in HCl medium by 1,12-bis(1,2,4-triazolyl)dodecane. Corrosion Sci 2005; 47: 447-459.10.1016/j.corsci.2004.05.028Search in Google ScholarCohen CE, Ding DY, Quintard M, Bazin B. A new matrix acidizing simulator based on a large scale dual porosity approach. SPE-107755-MS. European Formation Damage Conference, Scheveningen, the Netherlands, 2007.10.2118/107755-MSSearch in Google ScholarCohen CE, Ding D, Quintard M, Bazin B. A new matrix acidizing simulator based on a large scale dual porosity approach. SPE-107755-MS. European Formation Damage Conference, Scheveningen, the Netherlands, 2007.10.2118/107755-MSSearch in Google ScholarCohen CE, Ding D, Quintard M, Bazin B. A new matrix acidizing simulator based on a large scale dual porosity approach. Quintard M, Bazin B. From pore scale to wellbore scale: Impact of geometry on wormhole growth in carbonate acidization. Chem Eng Sci 2008; 63: 3088-3099.10.1016/j.ces.2008.03.021Search in Google ScholarCruz-Maya JA, Rosas-Flores JA, Godoy-Alcantar M, Jan-RobleroJ, Sanchez Silva F. A real-time virtual monitoring system of the skin factor for matrix acidizing treatments. Flow Meas Instrum 2011; 22: 413-420.10.1016/j.flowmeasinst.2011.06.005Search in Google Scholarde Melo AR, de Oliveira TJL. CFD as a tool for pumping strategy evaluation on matrix acidizing treatments. SPE-165100-MS. SPE European Formation Damage Conference Exhibition, Noordwijk, the Netherlands, 2013.10.2118/165100-MSSearch in Google Scholarde Oliveira TJL, de Melo AR, Oliveira TJL, de process and PVBT extraction methodology including porosity/permeability and mineralogy heterogeneity. SPE International Symposium and Exhibition on Formation Damage Control, Lafayette, LA, 2012.10.2118/151823-MSSearch in Google ScholarDulout GJM, Mazel JM, Prossaird S, Pujol D, Ogunwole JO. ERD campaign for matrix acidizing with coiled tubing - Nkossa South and Nsoko Fields-Congo. IPTC-13799-MS. International Petroleum Technology Conference, Doha, Qatar, 2009.10.2523/13799-MSSearch in Google ScholarEnelamah UC, Akunna PO, Poitrenaud H. Successful matrix acidizing: is guess work part of your design? Good engineering mitigates uncertainties. SPE-85683-MS Nigeria Annual International Conference and Exhibition, Abuja, Nigeria, 2003.10.2118/85683-MSSearch in Google ScholarFadele O, Zhu D, Hill AD. Matrix acidizing in gas wells. SPE-59771-MS. SPE/CERI Gas Technology Symposium, Calgary, Alberta, Canada, 2000.10.2118/59771-MSSearch in Google ScholarFadele O, Zhu D, Hill AD. Matrix acidizing in gas wells. SPE-59771-MS. SPE/CERI Gas Technology Symposium, Calgary, Alberta, Canada, 2000.10.2118/59771-MSSearch in Google ScholarFadele O, Zhu D, Hill AD. Matrix acidizing in gas wells. SPE-59771-MS. SPE/CERI Gas Technology Symposium, Calgary, Alberta, Canada, 2000.10.2118/59771-MSSearch in Google ScholarFadele O, Zhu D, Hill AD. Matrix acidizing in gas wells. SPE-59771-MSSearch in Google ScholarFadele O, Zhu D, Hill AD. Matrix acidizing in gas wells. SPE-59771-MSSearch in Google ScholarFadele O, Zhu D, Hill AD. Matrix acidizing in gas wells. SPE-59771-MSSearch in Google ScholarFadele O, Zhu D, Hill AD. Matrix acidizing in gas wells. SPE-5971-MSSearch in Google ScholarFadele O, Zhu D, Hill AD. Matrix acidizing in gas wells. SPE-5971-MSSearch in Google ScholarFadele O, Zhu D, Hill AD. Matrix acidizing in gas wells. SPE-5971-MSSearch in Google ScholarFadele O, Zhu D, Hill AD. Matrix acidizing in gas wells. SPE-5971-MSSearch in Google ScholarFadele O, Zhu D, Hill AD. Matrix acidizing in gas wells. 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Corrosion Sci 2014; 86: 17-41.10.1016/j.corsci.2014.044 Search in Google ScholarFranco CA, Nassar NN, Ruiz MA, Pereira-Almao P, Cortes FB. Nanoparticles for inhibition of asphaltenes damage: adsorption study and displacement test on porous media. Energy Fuels 2013; 27: 2899–2907.10.1021/ef4000825Search in Google ScholarFrenier WW, Hill DG. Effect of acidizing additives on formation permeability during matrix treatments. SPE-73705-MS. International Symposium and Exhibition on Formation Damage Control, Lafayette, LA, 2002.10.2118/73705-MSSearch in Google ScholarGhommem M, Zhao W, Dyer S, Qiu X, Brady D. Carbonate acidizing: modeling, analysis, and characterization of wormhole formation and propagation. J Pet Sci Eng 2015; 131: 18-33.10.1016/j.petrol.2015.04.021Search in Google ScholarGomaa AM, Nasr-El-Din HA. Effect of elastic properties on the propagation of gelled and in-situ gelled acids in carbonate cores. J Pet Sci Eng 2015; 127: 101-108.10.1016/j.petrol.2015.01.031Search in Google ScholarGonzalez RR, Grinrod A. Method of predicting/optimizing hydrogen sulfide scavenging capacity and reduction of scale formation. US patent 20110130298 2011.Search in Google ScholarGuo B, Lyons WC, Ghalambor A. Matrix acidizing. Petrol Prod Eng 2007; 16: 243-249.10.1016/B978-075068270-1/50022-0Search in Google ScholarGuo J, Xiao Y, Wang H. Stimulation for minimizing the total skin factor in carbonate reservoirs. J Natural Gas Sci Eng 2014; 21: 326-331.10.1016/B978-075068270-1/50022-0Search in Google ScholarGuo J, Xiao Y, Wang H. Stimulation for minimizing the total skin factor in carbonate reservoirs. J Natural Gas Sci Eng 2014; 21: 326-331.10.1016/J.jngse.2014.08.017Search in Google ScholarHill AD, Zhu D, Dong C, Luna-Garcia AL. Computer model predicts matrix acidizing of naturally fractured carbonate. J Pet Technol 2001; 53: 20-25.10.2118/1001-0020-JPTSearch in Google ScholarHong SH, Jeong J, Shim S, Kang H, Kwon S, Ahn KH, Yoon J. Effect of electric currents on bacterial detachment and inactivation. Biotechnol Bioeng 2008; 100: 379–386.10.1002/bit.21760Search in Google Scholar PubMed Hu J, Liu H, Wu D, Zhang J. Acidizing flow back optimization for tight sandstone gas reservoirs. J Natural Gas Sci Eng 2015; 24: 311–316.10.1016/j.jngse.2015.03.042Search in Google Scholar Huang T, Ostensen L, Hill AD. Carbonate matrix acidizing with acetic acid. SPE-58715-MS.SPE International Symposium on Formation Damage Control, Lafayette, LA, 2000.10.2118/58715-MSSearch in Google ScholarHuang T, McElfresh PM, Gabrysch AD. Carbonate matrix acidizing fluids at high temperatures: acetic acid, chelating agents or long-chained carboxylic acids? SPE-82268-MS. SPE European Formation Damage Conference, The Hague, the Netherlands, 2003.10.2118/82268-MSSearch in Google ScholarIstanbullu O, Babauta J, Nguyen HD, Beyenal H. Electrochemical biofilm control: mechanism of action. Biofouling 2012; 28: 769-778.10.1080/08927014.2012.707651Search in Google Scholar PubMed Central Izgec O, Zhu D, Hill AD. Numerical and experimental investigation of acid wormholing during acidization of vuggy carbonate rocks. J Pet Sci Eng 2010; 74: 51-66.10.1016/j.petrol.2010.08.006Search in Google ScholarJayaperumal D. Effects of alcohol-based inhibitors on corrosion of mild steel in hydrochloric acid. Mater Chem Phys 2010; 119: 478-484.10.1016/j.matchemphys.2009.09.028Search in Google ScholarJi Q, Zhou L, Nasr-El-Din HA. Acidizing sandstone reservoirs using fines control acid. SPE-169395-MS. SPE Latin America and Caribbean Petroleum Engineering Conference, Maracaibo, Venezuela, 2014.10.2118/169395-MS. SPE Latin America and Caribbean Petroleum Engineering Conference, Maracaibo, Venezuela, 2014.10.2118/169395-MS. SPE Latin America and Caribbean Petroleum Engineering Conference, Maracaibo, Venezuela, 2014.10.2118/169395-MS. SPE Latin America and Caribbean Petroleum Engineering Conference, Maracaibo, Venezuela, 2014.10.2118/169395-MS. SPE Latin America and Caribbean Petroleum Engineering Conference, Maracaibo, Venezuela, 2014.10.2118/169395-MS. SPE Latin America and Caribbean Petroleum Engineering Conference, Maracaibo, Venezuela, 2014.10.2118/169395-MS. SPE Latin America and Caribbean Petroleum Engineering Conference, Maracaibo, Venezuela, 2014.10.2118/169395-MS. SPE Latin America and Caribbean Petroleum Engineering Conference, Maracaibo, Venezuela, 2014.10.2118/169395-MS. SPE Latin America and Caribbean Petroleum Engineering Conference, Maracaibo, Venezuela, 2014.10.2118/169395-MS. SPE Latin America and Caribbean Petroleum Engineering Conference, Maracaibo, Venezuela, 2014.10.2118/169395-MS. SPE Latin America and Caribbean Petroleum Engineering Conference, Maracaibo, Venezuela, 2014.10.2118/169395-MS. SPE Latin America and Caribbean Petroleum Engineering Conference, Maracaibo, Venezuela, 2014.10.2118/169395-MS. SPE Latin America and Caribbean Petroleum Engineering Conference, Maracaibo, Venezuela, 2014.10.2118/169395-MS. SPE Latin America and Caribbean Petroleum Engineering Conference, Maracaibo, Venezuela, 2014.10.2118/169395-MS. SPE Latin America and Caribbean Petroleum Engineering Conference, Maracaibo, Venezuela, 2014.10.2118/169395-MS. SPE Latin America and Caribbean Petroleum Engineering Conference, Maracaibo, Venezuela, 2014.10.2118/169395-MS. SPE Latin America and America and America and America and America and America and America a R, Chaoyi S, Yu S. Reservoir stimulation techniques to minimize skin factor of Longwangmiao Fm gas reservoirs in the Sichuan Basin. Natural Gas Industry B, 2014; 1: 83-88.10.1016/j.ngib.2014.10.011Search in Google ScholarJones AT, Rodenboog C, Hill DG, Ali AHA, de Boer P. An engineered approach to matrix acidizing HTHP sour carbonate reservoirs. SPE-68915-MS. SPE European Formation Damage Conference, The Hague, the Netherlands, 2001.10.2118/68915-MSSearch in Google ScholarKalia N, Glasbergen G. Fluid temperature as a design parameter in carbonate matrix acidizing. SPE-135654-MS. SPE Production and Operations Conference and Exhibition, Tunis, Tunisia 2010.10.2118/135654-MSSearch in Google ScholarKazempour M, Alvarado V. Geochemically based modeling of pH-sensitive polymer injection in berea sandstone. Energy Fuels 2011; 25: 4024-4035.10.1021/ef200773hSearch in Google ScholarKhaled KF. The inhibition of benzimidazole derivatives on corrosion of iron in 1 M HCl solutions. Electrochim Acta 2003; 48: 2493-2503.10.1016/S0013-4686(03)00291-3Search in Google ScholarKhaled KF. The inhibitive effect of orthosubstituted anilines on corrosion of iron in 1 M HCl solutions. Electrochim Acta 2003; 48: 2715-2723.10.1016/S0013-4686(03)00318-9Search in Google ScholarKhaled KF, Babic-Samardzija K, Hackerman N. Piperidines as corrosion inhibitors for iron in hydrochloric acid. J Appl Electrochem 2004; 34: 697-704.10.1023/B; JACH.0000031160.88906.03Search in Google ScholarLeontaritis KJ. Asphaltene near-well-bore formation damage modeling. J Energy Resources Technol 2005; 127: 191-200.10.1115/1.1937416Search in Google ScholarLeontaritis KJ. Asphaltene near-well-bore formation damage modeling. J Energy Resources Technol 2005; 127: 191-200.10.1115/1.1937416Search in Google ScholarLeontaritis KJ. Asphaltene near-well-bore formation damage modeling. J Energy Resources Technol 2005; 127: 191-200.10.1115/1.1937416Search in Google ScholarLeontaritis KJ. Asphaltene near-well-bore formation damage modeling. J Energy Resources Technol 2005; 127: 191-200.10.1115/1.1937416Search in Google ScholarLeontaritis KJ. Asphaltene near-well-bore formation damage modeling. J Energy Resources Technol 2005; 127: 191-200.10.1115/1.1937416Search in Google ScholarLeontaritis KJ. Asphaltene near-well-bore formation damage modeling. J Energy Resources Technol 2005; 127: 191-200.10.1115/1.1937416Search in Google ScholarLeontaritis KJ. Asphaltene near-well-bore formation damage modeling. J Energy Resources Technol 2005; 127: 191-200.10.1115/1.1937416Search in Google ScholarLeontaritis KJ. Asphaltene near-well-bore formation damage modeling. J Energy Resources Technol 2005; 127: 191-200.10.1115/1.1937416Search in Google ScholarLeontaritis KJ. Asphaltene near-well-bore formation damage modeling. J Energy Resources Technol 2005; 127: 191-200.10.1115/1.1937416Search in Google ScholarLeontaritis KJ. Asphaltene near-well-bore formation damage modeling. J Energy Resources Technol 2005; 127: 191-200.10.1115/1.1937416Search in Google ScholarLeontaritis KJ. Asphaltene near-well-bore formation damage modeling. J Energy Resources Technol 2005; 127: 191-200.10.1115/1.1937416Search in Google ScholarLeontaritis KJ. Asphaltene near-well-bore formation damage modeling. J Energy Resources Technol 2005; 127: 191-200.10.1115/1.1937416Search in Google ScholarLeontaritis KJ. Asphaltene near-well-bore formation damage modeling. J Energy Resources Technol 2005; 127: 191-127: 225-232.10.2118/90428-MSSearch in Google ScholarLi X, Tu J, Yang Z. Simulation of wormhole in carbonate acidizing using a new diffusion limited aggregation model. 2010 International Conference on Computational and Information Sciences, Chengdu, China, 2010.Search in Google ScholarLi X, Yang Z, Zhao J, Wang Y, Song R, He Y, Su Z, Lei T. A modified shrinking core model for the reaction between acid and hetero-granular rough mineral particles. Hydrometallurgy 2015; 153: 114-120.10.1016/j.hydromet.2015.03.001Search in Google ScholarLi Y, Liao Y, Zhao J, Peng Y, Pu X. Simulation and analysis of wormhole formation in carbonate rocks considering heat transmission process. J Natural Gas Sci Eng 2017; 42: 120-132.10.1016/j.jngse.2017.02.048Search in Google ScholarLiu M, Zhang S, Mou J. Effect of normally distributed porosities on dissolution pattern in carbonate acidizing. J Pet Sci Eng 2012; 94-95: 28-39.10.1016/j.petrol.2012.06.021Search in Google ScholarLiu M, Zhang S, Mou J. Effect of normally distributed porosities on dissolution pattern in carbonate acidizing. J Pet Sci Eng 2012; 94-95: 28-39.10.1016/j.petrol.2012.06.021Search in Google ScholarLiu M, Zhang S, Mou J. Effect of normally distributed porosities on dissolution pattern in carbonate acidizing. J Pet Sci Eng 2012; 94-95: 28-39.10.1016/j.petrol.2012.06.021Search in Google ScholarLiu M, Zhang S, Mou J. Effect of normally distributed porosities on dissolution pattern in carbonate acidizing. J Pet Sci Eng 2012; 94-95: 28-39.10.1016/j.petrol.2012.06.021Search in Google ScholarLiu M, Zhang S, Mou J. Effect of normally distributed porosities on dissolution pattern in carbonate acidizing. J Pet Sci Eng 2012; 94-95: 28-39.10.1016/j.petrol.2012.06.021Search in Google ScholarLiu M, Zhang S, Mou J. Effect of normally distributed porosities on dissolution pattern in carbonate acidizing. J Pet Sci Eng 2012; 94-95: 28-39.10.1016/j.petrol.2012.06.021Search in Google ScholarLiu M, Zhang S, Mou J. Effect of normally distributed porosities on dissolution pattern in carbonate acidizing. J Pet Sci Eng 2012; 94-95: 28-39.10.1016/j.petrol.2012.06.021Search in Google ScholarLiu M, Zhang S, Mou J. Effect of normally distributed porosities on dissolution pattern in carbonate acidizing. behavior under reservoir condition in carbonate acidizing. Transp Porous Media 2013; 96: 203-220.10.1007/s11242-012-0084-zSearch in Google ScholarLiu P, Xue H, Zhao LQ, Fu Y, Luo Z, Qu Z. Analysis and simulation of rheological behavior and diverting mechanism of in situ self-diverting acid. J Pet Sci Eng 2015; 132: 39-52.10.1016/j.petrol.2015.04.042Search in Google ScholarLiu P, Yao J, Couples GD, Huang Z, Sun H, Ma J. Numerical modelling and analysis of reactive flow and wormhole formation in fractured carbonate rocks. Chem Eng Sci 2017a; 172: 143-157.10.1016/j.ces.2017.06.027Search in Google ScholarLiu P, Yao J, Couples GD, Ma J, Huang Z, Sun H. Modeling and simulation of wormhole formation during acidization of fractured carbonate rocks. J Petrol Sci Eng 2017b; 154: 284-301.10.1016/j.petrol.2017.04.040Search in Google ScholarLivescu S, Sturgeon TA, Watkins TJ. Systems and methods for real-time evaluation of coiled tubing matrix acidizing. US patents 9631474, 2013.Search in Google ScholarMachado AC, Oliveira TJL, Cruz FB, Lopes RT, Lima I. X-ray microtomography of hydrochloric acid propagation in carbonate rocks. Appl Radiation Isotopes 2015; 96: 129–134.10.1016/j.apradiso.2014.10.027Search in Google Scholar PubMed Maheshwari P, Balakotaiah V. Comparison of carbonate HCl acidizing experiments with 3D simulations. SPE Prod Operations 2013; 28: 402-413.10.2118/164517-PASearch in Google ScholarMansoori GA, Vazquez D, Shariaty-Niassar M. Polydispersity of heavy organics in crude oils and their role in oil well fouling. J Pet Sci Eng 2007; 58: 375-390.10.1016/j.petrol.2006.10.013Search in Google ScholarMedeiros F, Trevisan OV. Thermal analysis in matrix acidization. J Pet Sci Eng 2006; 51: 85-96.10.1016/j.petrol.2005.11.011Search in Google ScholarMiryakili A, Rahimpour MR, Jahanmiri A. Experimental study of iron-control agents selection for high temperature sour gas and oil wells acidizing process. Chem Eng Res Des 2012; 90: 1823-1833.10.1016/j.cherd.2012.03.015Search in Google ScholarMondal S. Polymeric membranes for produced water treatment: an overview of fouling behavior and its control. Rev Chem Eng 2016; 32: 6-16.10.1515/revce-2015-0027Search in Google ScholarMorsy S, Sheng JJ, Hetherington CJ, Soliman MY, Ezewu RO. Impact of matrix acidizing on shale formations. SPE-167568-MSSearch in Google ScholarMorsy S, Hetherington CJ, Sheng JJ. Effect of low-concentration HCl on the mineralogy, physical and mechanical properties, and recovery factors of some shales. J Unconventional Oil Gas Resources 2015; 9: 94-102.10.1016/j.juogr.2014.11.005Search in Google ScholarNace publication SP0169. Control of external corrosion on underground or submerged metallic piping systems, Nace International, Houston, Texas, 2013.Search in Google ScholarNasr-El-Din HA, Al-Othman AM, Taylor KC, Al-Ghamdi AH. Surface tension of HCl-based stimulation fluids at high temperatures. J Pet Sci Eng 2004; 43: 57–73.10.1016/j.petrol.2003.11.005Search in Google ScholarNasr-El-Din HA, Al-Othman AM, Taylor KC, Al-Ghamdi AH. Surface tension of HCl-based stimulation fluids at high temperatures. J Pet Sci Eng 2004; 43: 57–73.10.1016/j.petrol.2003.11.005Search in Google ScholarNasr-El-Din HA, Al-Othman AM, Taylor KC, Al-Ghamdi AH. Surface tension of HCl-based stimulation fluids at high temperatures. J Pet Sci Eng 2004; 43: 57–73.10.1016/j.petrol.2003.11.005Search in Google ScholarNasr-El-Din HA, Al-Othman AM, Taylor KC, Al-Ghamdi AH. Surface tension of HCl-based stimulation fluids at high temperatures. J Pet Sci Eng 2004; 43: 57–73.10.1016/j.petrol.2003.11.005Search in Google ScholarNasr-El-Din HA, Al-Othman AM, Taylor KC, Al-Ghamdi AH. Surface tension of HCl-based stimulation fluids at high temperatures. J Pet Sci Eng 2004; 43: 57–73.10.1016/j.petrol.2003.11.005Search in Google ScholarNasr-El-Din HA, Al-Othman AM, Taylor KC, Al-Ghamdi AH. Surface tension of HCl-based stimulation fluids at high temperatures. J Pet Sci Eng 2004; 43: 57–73.10.1016/j.petrol.2003.11.005Search in Google ScholarNasr-El-Din HA, Al-Othman AM, Taylor KC, Al-Ghamdi AH. Surface tension of HCl-based stimulation fluids at high temperatures. J Pet Sci Eng 2004; 43: 57–73.10.1016/j.petrol.2003.11.005Search in Google ScholarNasr-El-Din HA, Al-Othman AM, Taylor KC, Al-Ghamdi AH. Surface tension of HCl-based stimulation fluids at high temperatures. J Pet Sci Eng 2004; 43: 57–73.10.1016/j.petrol.2003.11.005Search in Google ScholarNasr-El-Din HA, Al-Othman AM, Taylor KC, Al-Ghamdi AH. Surface tension of HCl-based stimulation fluids at high temperatures. J Pet Sci Eng 2004; 43: 57–73.10.1016/j.petrol.2003.11.005Search in Google ScholarNasr-El-Din HA, Al-Othman AM, Al-Othman AM. Surface tension of HCl-based stimulation fluids at high temperatures. J Pet Sci Samuel M. Restoring the injectivity of water disposal wells using a viscoelastic surfactant-based acid. J Pet Sci Eng 2006; 54: 10-24.10.1016/j.petrol.2006.07.001Search in Google ScholarNengkoda A, Mirza M, Ghozali F, Susandi I, Al Ward A. Trending of H2S from reservoir after acidizing from well contained SRB bacteria: souring case study in X field Southern Oman. SPE Project and Facilities Challenges Conference at METS, Doha, Qatar 2011.10.2118/142477-MSSearch in Google ScholarNozaki M, Hill AD. A placement model for matrix acidizing of vertically extensive, heterogeneous gas reservoirs. SPE-124881-PA. SPE Prod Operations 2010; 25: 388-397.10.2118/124881-PASearch in Google ScholarOkafor PC, Liu X, Zheng YG. Corrosion inhibition of mild steel by ethylaminoimidazoline derivative in CO2-saturated solution. Corrosion Sci 2009; 51: 761-768.10.1016/j.corsci.2009.01.017Search in Google ScholarOsman MM, Shalaby MN. Some ethoxylated fatty acids as corrosion inhibitors for low carbon steel in formation water. Mater Chem Phys 2003; 77: 261-269.10.1016/S0254-0584(01)00580-6Search in Google ScholarOstovari A, Hoseinieh SM, Peikari M, Shadizadeh SR, Hashemi SJ. Corrosion inhibition of mild steel in 1 M HCl solution by henna extract: a comparative study of the inhibition by henna and its constituents (Lawsone, Gallic acid, a-D-Glucose and Tannic acid). Corrosion Sci 2009; 51: 1935–1949.10.1016/j.corsci.2009.05.024Search in Google ScholarPanga MKR, Ziauddin M, Balakotaiah V. Two-scale continuum model for simulation of wormholes in carbonate acidization. AIChE J 2005; 51: 3231-3248.10.1002/aic.10574Search in Google ScholarPatton BJ, Pitts F, Goeres T, Hertfelder G. Matrix acidizing case studies for the point Arguello field. SPE-83490-MSS earch in Google ScholarPatton BJ, Pitts F, Goeres T, Hertfelder G. Matrix acidizing case studies for the point Arguello field. SPE-83490-MSS earch in Google ScholarPatton BJ, Pitts F, Goeres T, Hertfelder G. Matrix acidizing case studies for the point Arguello field. Google ScholarPopova A, Sokolova E, Raicheva S, Christov M. AC and DC study of the temperature effect on mild steel corrosion in acid media in the presence of benzimidazole derivatives. Corrosion Sci 2003; 45: 33-58.10.1016/S0010-938X(02)00072-0Search in Google ScholarPopova A, Christov M, Zwetanova A. Effect of the molecular structure on the inhibitor properties of azoles on mild steel corrosion in 1 M hydrochloric acid. Corrosion Sci 2007; 49: 2131-2143.10.1016/j.corsci.2006.10.021Search in Google ScholarPortier S, Vuataz FD, Nami P, Sanjuan B, Gérard A. Chemical stimulation techniques for geothermal wells: experiments on the three-well EGS system at Soultz-sous-Forêts, France. Geothermics 2009; 38: 349-359.10.1016/j.geothermics.2009.07.001Search in Google ScholarPourabdollah K. Development of electrolyte inhibitors in nickel cadmium batteries. Chem Eng Sci 2017a; 160: 304-312.10.1016/j.ces.2016.11.038Search in Google ScholarPourabdollah K. Process design of matrix acidizing by antifouling agents. Chem Eng Res Des 2017b; 121: 407-420.10.1016/j.cherd.2017.04.008Search in Google ScholarPourabdollah K. Process design of cyclic water flooding by real time monitoring. J Energ Resour ASME 2018; doi: 10.1115/1.4040525.10.1115/1.4040525Search in Google ScholarPourabdollah K. Process design of cyclic water flooding by real time monitoring. J Energ Resour ASME 2018; doi: 10.1115/1.4040525Search in Google ScholarPourabdollah K. Process design of cyclic water flooding by real time monitoring. J Energ Resour ASME 2018; doi: 10.1115/1.4040525Search in Google ScholarPourabdollah K. Process design of cyclic water flooding by real time monitoring. J Energ Resour ASME 2018; doi: 10.1115/1.4040525Search in Google ScholarPourabdollah K. Process design of cyclic water flooding by real time monitoring. J Energ Resour ASME 2018; doi: 10.1115/1.4040525Search in Google ScholarPourabdollah K. Process design of cyclic water flooding by real time monitoring. J Energ Resour ASME 2018; doi: 10.1115/1.4040525Search in Google ScholarPourabdollah K. Process design of cyclic water flooding by real time monitoring. J Energ Resour ASME 2018; doi: 10.1115/1.4040525Search in Google ScholarPourabdollah K. Process design of cyclic water flooding by real time monitoring. J Energ Resour ASME 2018; doi: 10.1115/1.4040525Search in Google ScholarPourabdollah K. Process design of cyclic water flooding by real time monitoring. J Energ Resour ASME 2018; doi: 10.1115/1.4040525Search in Google ScholarPourabdollah K. Process design of cyclic water flooding by real time monitoring. J Energ Resour ASME 2018; doi: 10.1115/1.4040525Search in Google ScholarPourabdollah K. Process design of cyclic water flooding by real time monitoring. J Energ Resour ASME 2018; doi: 10.1115/1.4040525Search in Google ScholarPourabdollah K. Process design of cyclic water flooding by real time monitoring. J Energ Resour ASME 2018; doi: 10.1115/1.4040525Search in Google ScholarPourabdollah K. Process design of cyclic water flooding by real time monitoring. J Energ Resour ASME 2018; do steel (N-80) and mild steel. J Am Oil Chem Soc 2000; 77: 1107-1111.10.1007/s11746-000-0174-6Search in Google ScholarQuraishi MA, Jamal D. Corrosion inhibition of N-80 steel and mild steel in 15% boiling hydrochloric acid by a triazole compound - SAHMT. Mater Chem Phys 68; 2001: 283-287.10.1016/S0254-0584(00)00369-2Search in Google ScholarQuraishi MA, Jamal D, Dianils D. New and effective corrosion inhibitors for oilwell steel (N-80) and mild steel in boiling hydrochloric acid. Corrosion 2000; 56: 156-160.10.5006/1.3280531Search in Google ScholarQuraishi MA, Sardar N, Ali H. A study of some new acidizing inhibitors on corrosion of N-80 alloy in 15% boiling hydrochloric acid. Corrosion 2002; 58: 317-321.10.5006/1.3287679Search in Google ScholarRabie AI, Saber MR, Nasr El-Din HA. A new environmentally friendly acidizing fluid for HP/HT matrix acidizing fluid for HP/HT mat in Google ScholarRabiee A, Ershad-Langroudi A, Jamshidi H. Polyacrylamide-based polyampholytes and their applications. Rev Chem Eng 2014; 30: 501-519.10.1515/revce-2014-0004Search in Google ScholarRahim Z, Al-Anazi H, Ahmed M, Al-Kanaan A, El-Mofty W. Matrix acidizing innovation surpasses competing methods in Saudi carbonate. SPE-0514-0032-JPT. J Pet Technol 2014; 66: 32-36.10.2118/0514-0032-JPTSearch in Google ScholarRatnakar RR, Kalia N, Balakotaiah V. Modeling, analysis and simulation of wormhole formation in carbonate rocks with in situ cross-linked acids. Chem Eng Sci 2013; 90: 179-199.10.1016/j.ces.2012.12.019Search in Google ScholarRonen A, Walker SL, Jassby D. Electroconductive and electroresponsive membranes for water treatment. Rev Chem Eng 2016; 32: 533-550.10.1515/revce-2015-0060Search in Google ScholarSadeghinezhad E, Kazi SN, Badarudin A, Nashrul M, Zubair M, Lotfizadeh Dehkordi B, Oon CS. A review of milk fouling on heat exchanger Surfaces. Rev Chem Eng 2013; 29: 169-188.10.1515/revce-2013-0003Search in Google ScholarSafari A, Rashidi F, Kazemzadeh E, Hassani A. Determining optimum acid injection rate for a carbonate gas reservoir and scaling the result up to the field conditions: a case study. J Natural Gas Sci Eng 2014; 20: 2-7.10.1016/j.jngse.2014.05.017Search in Google ScholarSanchez-Lopez JRG, Martinez-Hernandez A, Hernandez-Ramirez A, Modeling of transport phenomena in fixed-bed reactors for the Fischer-Tropsch reaction: a brief literature review. Rev Chem Eng 2017; 33: 109-142.10.1515/revce-2015-0044Search in Google ScholarSanders PF, Sturman PJ. Biofouling in the oil industry. In: Ollivier B, Magot M, editors. Petroleum microbiology, Washington: ASM Press, 2005: 171-198.Search in Google ScholarSathiya Priya AR, Muralidharan VS, Subramania A. Development of novel acidizing inhibitors for carbon steel corrosion in 15% boiling hydrochloric acid. Corrosion 2008; 64: 541-552.10.5006/1.3278490Search in Google ScholarSathiya Priya AR, Muralidharan VS, Subramania A. Development of novel acidizing inhibitors for carbon steel corrosion 2008; 64: 541-552.10.5006/1.3278490Search in Google ScholarSathiya Priya AR, Muralidharan VS, Subramania A. Development of novel acidizing inhibitors for carbon steel corrosion 2008; 64: 541-552.10.5006/1.3278490Search in Google ScholarSathiya Priya AR, Muralidharan VS, Subramania A. Development of novel acidizing inhibitors for carbon steel corrosion 2008; 64: 541-552.10.5006/1.3278490Search in Google ScholarSathiya Priya AR, Muralidharan VS, Subramania A. Development of novel acidizing inhibitors for carbon steel corrosion 2008; 64: 541-552.10.5006/1.3278490Search in Google ScholarSathiya Priya AR, Muralidharan VS, Subramania A. Development of novel acidizing inhibitors for carbon steel corrosion 2008; 64: 541-552.10.5006/1.3278490Search in Google ScholarSathiya Priya AR, Muralidharan VS, Subramania A. Development of novel acidizing inhibitors for carbon steel corrosion 2008; 64: 541-552.10.5006/1.3278490Search in Google ScholarSathiya Priya AR, Muralidharan VS, Subramania A. Development of novel acidizing inhibitors for carbon steel corrosion 2008; 64: 541-552.10.5006/1.3278490Search in Google ScholarSathiya Priya AR, Muralidharan VS, Subramania A. Development of novel acidizing inhibitors for carbon steel corrosion 2008; 64: 541-552.10.5006/1.3278490Search in Google ScholarSathiya Priya AR, Muralidharan VS, Subramania A. Development of novel acidizing inhibitors for carbon steel corrosion 2008; 64: 541-552.10.5006/1.3278490Search in Google ScholarSathiya Priya AR, Muralidharan VS, Subramania A. Development of novel acidizing inhibitors for carbon steel corrosion 2008; 64: 541-552.10.5006/1.3278490Sear of an empirical wormhole model for carbonate matrix acidizing through two-scale continuum 3D simulations. SPE Europec featured at 79th EAGE Conference and Exhibition, Paris, France, 2017.10.2118/185788-MSSearch in Google ScholarSiddiqui S, Nasr-El-Din HA, Khamees AA. Wormhole initiation and propagation of emulsified acid in carbonate cores using computerized tomography. J Pet Sci Eng 2006; 54: 93-111.10.1016/j.petrol.2006.08.005Search in Google ScholarSokhnvarian K, Nasr-El-Din HA, Wang G, de-Wolf CA. Thermal stability of various chelates that are used in the oil field and potential damage due to their decomposition products. SPE International Production and Operations Conference and Exhibition, Doha, Qatar, 2012.10.2118/157426-MSSearch in Google ScholarSougani L, Rivi L. Mathematical models for foam-diverted acidizing and their applications. Pet Sci 2008; 5: 145-152.10.1007/s12182-008-0022-4Search in Google ScholarSougani BS, Tohidi B, Jamialahmadi M, Rashtchian D. Modeling formation damage due to asphaltene deposition in the porous media. Energy Fuels 2011; 25: 753-761.10.1021/ef101195aSearch in Google ScholarSultana ST, Babauta JT, Beyenal H. Electrochemical biofilm control: a review. Biofouling 2015; 31: 745-758.10.1080/08927014.2015.1105222Search in Google Scholar PubMed Central Tabasy M, Rashidi F. A qualitative simulation of a face dissolution pattern in acidizing process using rotating disk apparatus for a carbonate gas reservoir. J Natural Gas Sci Eng 2015; 26: 1460-1469.10.1016/j.jngse.2015.08.014Search in Google ScholarTambini M. Beyond acidizing and fracturing. SPE-82573-MS. SPE European Formation Damage Conference, The Hague the Netherlands 2003.10.2118/82573-MSSearch in Google ScholarTaylor GN. Method of scavenging hydrogen sulfide and/or mercaptans using triazines. US patent 20110220551, 2011.Search in Google ScholarTchistiakov AA. Colloid chemistry of in-situ clay-induced formation damage. SPE 58747, SPE International Symposium on Formation Damage Control, Lafayette, LA, 2000.10.2118/58747-MSSearch in Google ScholarTeklu TW, Abass HH, Hanashmooni R, Carratu JC, Ermila M. Experimental investigation of acid imbibition on matrix and fractured carbonate rich shales. J Natural Gas Sci Eng 2017; 45: 706-725.10.1016/j.jngse.2017.06.001Search in Google ScholarTrehan R, Jones ND, Kline T. A novel approach in completing unconventional tight-gas condensate wells using propellant gas-assist perforating and foam matrix acidizing: case study. SPE Western Regional Meeting, Bakersfield, CA, 2012.10.2118/154164-MSSearch in Google ScholarUgursal A, Zhu D, Hill AD. Development of acid fracturing model for naturally fractured reservoirs. SPE Hydraulic Fracturing Technology Conference and Exhibition, The Woodlands, TX, 2018.10.2118/189834-MSSearch in Google ScholarUmer-Shafiq M, Ben-Mahmud H. Sandstone matrix acidizing knowledge and future development. J Pet Explor Prod Technol 2017; 7: 1205–1216.10.1007/s13202-017-0314-6Search in Google ScholarUmer-Shafiq M, Ben-Mahmud H. Sandstone matrix acidizing knowledge and future development. J Pet Explor Prod Technol 2017; 7: 1205–1216.10.1007/s13202-017-0314-6Search in Google ScholarUmer-Shafiq M, Ben-Mahmud H. Sandstone matrix acidizing knowledge and future development. J Pet Explor Prod Technol 2017; 7: 1205–1216.10.1007/s13202-017-0314-6Search in Google ScholarUmer-Shafiq M, Ben-Mahmud H. Sandstone matrix acidizing knowledge and future development. J Pet Explor Prod Technol 2017; 7: 1205–1216.10.1007/s13202-017-0314-6Search in Google ScholarUmer-Shafiq M, Ben-Mahmud H. Sandstone matrix acidizing knowledge and future development. J Pet Explor Prod Technol 2017; 7: 1205–1216.10.1007/s13202-017-0314-6Search in Google ScholarUmer-Shafiq M, Ben-Mahmud H. Sandstone matrix acidizing knowledge and future development. J Pet Explor Prod Technol 2017; 7: 1205–1216.10.1007/s13202-017-0314-6Search in Google ScholarUmer-Shafiq M, Ben-Mahmud H. Sandstone matrix acidizing knowledge and future development. J Pet Explor Prod Technol 2017; 7: 1205–1216.10.1007/s13202-017-0314-6Search in Google ScholarUmer-Shafiq M, Ben-Mahmud H. Sandstone matrix acidizing knowledge and future development. J Pet Explor Prod Technol 2017; 7: 1205–1216.10.1007/s13202-017-0314-6Search in Google ScholarUmer-Shafiq M, Ben-Mahmud H. Sandstone matrix acidizing knowledge and future development. J Pet Explor Prod Technol 2017; 7: 1205–1216.10.1007/s13202-017-0314-6Search in Google ScholarUmer-Shafiq M, Ben-Mahmud H. Sandstone matrix acidizing knowledge and future development. J Pet Explor Prod Technol 2017; 7: 1205–1216.10.1007/s13202-017-0314-6Search in Google ScholarUmer-Shafiq M, Ben-Mahmud H. Sandstone M, Ben-Mahmud H. Sandstone ScholarVishwanatham S, Haldar N. Furfuryl alcohol as corrosion inhibitor for N80 steel in hydrochloric acid. Corrosion Sci 2008; 50: 2999-3004.10.1016/j.corsci.2008.08.005Search in Google ScholarWang HL, Liu RB, Xin J. Inhibiting effects of some mercapto-triazole derivatives on the corrosion Sci 2008; 50: 2999-3004.10.1016/j.corsci.2008.08.005Search in Google ScholarWang HL, Liu RB, Xin J. Inhibiting effects of some mercapto-triazole derivatives on the corrosion Sci 2008; 50: 2999-3004.10.1016/j.corsci.2008.08.005Search in Google ScholarWang HL, Liu RB, Xin J. Inhibiting effects of some mercapto-triazole derivatives on the corrosion Sci 2008; 50: 2999-3004.10.1016/j.corsci.2008.08.005Search in Google ScholarWang HL, Liu RB, Xin J. 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SPE-121698-MSS earch in Google ScholarXu T, Pruess K. Modeling multiphase non-isothermal fluid flow and reactive geochemical transport in variably saturated fractured rocks: 1. Methodology. Am J Sci 2001; 301: 16-33.10.2475/ajs.301.1.16Search in Google ScholarXu T, Ontoy Y, Molling P, Spycher N, Parini M, Pruess K. Reactive transport modeling of injection well scaling and acidizing at Tiwi field, Philippines. Geothermics 2004; 33: 477-491.10.1016/j.geothermics.2003.09.012Search in Google ScholarYadav M, Behera D, Sharma U. Nontoxic corrosion inhibitors for N80 steel in hydrochloric acid. Arab J Chem 2016; 9: S1487-S1495.10.1016/j.arabjc.2012.03.011Search in Google ScholarYadav M, Behera D, Sharma U. Nontoxic corrosion inhibitors for N80 steel in hydrochloric acid. Arab J Chem 2016; 9: S1487-S1495.10.1016/j.arabjc.2012.03.011Search in Google ScholarYadav M, Behera D, Sharma U. Nontoxic corrosion inhibitors for N80 steel in hydrochloric acid. 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Rock specific hydraulic fracturing and matrix acidizing to enhance a geothermal system - concepts and field results. Tectonophysics 2011 503: 146-154.10.1016/j.tecto.2010.09.026Search in Google Scholar

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