**Reference list for fluid database – Appendix DR4**

Bagheri, R., Nadri, A., Raeisi, E., Eggenkamp, H.G.M., Kazemi, G.A., and Montaseri, A., 2014, Hydrochemical and isotopic (δ18O, δ2H, 87Sr/86Sr, δ37Cl and δ81Br) evidence fort he origin of saline formation water in a gas reservoir: Chemical Geology, v. 384, p. 62-75.

Baker, T., Van Achterberg, E., Ryan, C.G., and Lang, J.R., 2004, Composition and evolution of ore fluids in a magmatic-hydrothermal skarn deposit: Geology, v. 32, p. 117-120.

Banks, D.A., Boyce, A.J., and Samson, I.M., 2002, Constraints on the origin of fluids forming Irish Zn-Pb-Ba deposits: Evidence from the composition of fluid inclusions: Economic Geology, v. 97, p. 471-480.

Birkle, P., Garcia Martinez, B., and Milland Padrón, C.M., 2009, Origin and evolution of formation at the Jujo-Tecominoacán oil reservoir, Gulf of Mexico. Part 1: Chemical evolution and water-rock interaction: Applied Geochemistry, v. 24, p. 543-554.

Butterfield, D.A., McDuff, R.E., Franklin, J., and Wheat, C.G., 1994, Geochemistry of hydrothermal vent fluids from Middle Valley, Juan de Fuca Ridge *in* Mottl., M.J., et al., eds., Proceedings of the Ocean Drilling Program, Scientific Results, v. 139, p. 395-410.

Charlou, J.L., Donval, J.P., Douville, E., Jean-Baptiste, P., Radford-Knoery, J., Fouquet, Y., Dapoigny, A., and Stievenard, M., 2000, Compared geochemical signatures and the evolution of Menez Gwen (37°50’N) and Lucky Strike (37°17’N) hydrothermal fluids, south of the Azores Triple Junction on the Mid-Atlantic Ridge: Chemical Geology, v.171, p. 49-75.

Chen, L., Ma, T., Du, Y., Yang, J., Liu, L., Shan, H., Liu, C., and Cai, H., 2014, Origin and evolution of formation water in North China Plain based on hydrochemistry and stable isotopes (2H, 18O, 37Cl, and 81Br): Journal of Geochemical Exploration, v. 145, p. 250-259.

Connolly, C.A., Walter, L.M., Baadsgaard, H., and Longstaffe, F.J., 1990, Origin and evolution of formation waters, Alberta Basin, Western Canada Sedimentary Basin. I. Chemistry: Applied Geochemistry, v. 5, p. 375-395.

Crowe, B.M., Finnegan, D.L., Zoller, W.H., and Boynton, W.V., 1987, Trace element geochemistry of volcanic gases and particles from 1983-1984 eruptive episodes of Kilauea Volcano: Journal of Geophysical Research, v. 92, p. 13708-13714.

Egeberg, P., and Aagaard, P., 1989, Origin and evolution of formation waters from oil fields on the Norwegian shelf: Applied Geochemistry, v. 4, p. 131-142.

Engle, M.A., Reyes, F.R., Varonka, M.S., Orem, W.H., Ma, L., Ianno, A.J., Schell, T.M., Xu, P., and Carroll, K.C., 2016, Geochemistry of formation waters from the Wolfcamp and “Cline” shales: Insights into brine origin, reservoir connectivity, and fluid flow in the Permian Basin, USA: Chemical Geology, v. 425, p. 76-92.

Fontes, J.C., and Matray, J.M., 1993, Geochemistry and origin of formation brines from the Paris Basin, France. 1. Brines associated with Triassic salts: Chemical Geology, v. 109, p. 146-175.

Gemmell, J.B., 1987, Geochemistry of metallic trace elements in fumarolic condensates from Nicaraguan and Costa Rican volcanoes: Journal of Volcanology and Geothermal Research, v. 33, p. 161-181.

Heijlen, W., Muchez, P., and Banks, D.A., 2001, Origin and evolution of high-salinity, Zn-Pb mineralising fluids in the Variscides of Belgium: Mineralium Deposita, v. 36, p. 165-176.

Hitchon, B., Billings, G.K., and Klovan, J.E., 1971, Geochemistry and origin of formation waters in the western Canadian sedimentary basin – III. Factors controlling chemical composition: Geochimica et Cosmochimica Acta, v. 35, p. 567-598.

James, R.H., Elderfield, H., and Palmer, M.R., The chemistry of hydrothermal fluids from the Broken Spur site, 29°N Mid-Atlantic Ridge: Geochimica et Cosmochimica Acta, v. 59, p. 651-659.

Kesler, S.E., Martini, A.M., Appold, M.S., Walter, L.M., Huston, T.J., and Furman, F.C., 1996, Na-Cl-Br systematics of fluid inclusions from Mississippi Valley-type deposits, Appalachian Basin: Constraints on solute origin and migration paths: Geochimica et Cosmochimica Acta, v. 60, p. 225-233.

Kesler, S.E., Reich, M., and Jean, M., 2007, Geochemistry of fluid inclusions from Earth’s oldes Mississippi Valley-type (MVT) deposits, Transvall Supergroup, South Africa: Chemical Geology, v. 237, p. 274-288.

Land, L.S., and Prezbindowski, D.R., 1981, The origin and evolution of saline formation water, Lower Cretaceous carbonates, South-Central Texas, U.S.A.: Journal of Hydrology, v. 54, p. 51-74.

McCarthy, K.T., Pichler, T., and Price, R.E., 2005, Geochemistry of Champagne Hot Springs shallow hydrothermal vent field and associated sediments, Dominica, Lesser Antilles: Chemical Geology, v. 224, p. 55-68.

Morad, S., Ben Ismail, H.N., De Ros, L.F., Al-Aasm, I.S., and Serrhini, N.-E., 1994, Diagenesis and formation water chemistry of Triassic reservoir sandstones from southern Tunisia: Sedimentology, v. 41, p. 1253-1272.

Pichler, T., Veizer, J., and Hall, G.E.M., 1999, The chemical composition of shallow-water hydrothermal fluids in Tutum Bay, Ambitle Island, Papua New Guinea and their effect on ambient seawater: Marine Chemistry, v. 64, p. 229-252.

Schmidt, K., Garbe-Schönberg, D., Koschinsky, A., Strauss, H., Jost, C.L., Klevenz, V., and Königer, P., 2011, Fluid elemental and stable isotope composition of the Nibelungen hydrothermal field (8°18’S, Mid-Atlantic Ridge): Constraints on fluid-rock interaction in heterogeneous lithosphere: Chemical Geology, v. 280, p. 1-18.

Seyfried, W.E., Seewald, J.S., Berndt, M.E., Ding, K., and Foustoukos, D.I., 2003, Chemistry of hydrothermal vent fluids from the Main Endeavour Field, northern Juan de Fuca Ridge: Geochemical controls in the aftermath of June 1999 seismic events: Journal of Geophysical Research, v. 108, p. 1-23.

Shu, Q., Chang, Z., Hammerli, J., Lai, Y., and Huizenga, J.-M., 2017, Composition and evolution of fluids forming the Baiyinnuo’er Zn-Pb skarn deposit, Northeastern China: Insights from laser ablation ICP-MS study of fluid inclusions: Economic Geology, v. 112, p. 1441-1460.

Stueber, A.M., Walter, L.M., Huston, T.J., and Pushkar, P., 1993, Formation waters from Mississippian-Pennsylvanian reservoirs, Illinois basin, USA: Chemical and isotopic constraints on evolution and migration: Geochimica et Cosmochimica Acta, v. 57, p. 763-784.

Stueber, A.M., and Walter, L.M., 1991, Origin and chemical evolution of formation waters from Silurian-Devonian strata in the Illinois basin, USA: Geochimica et Cosmochimica Acta, v. 55, p. 309-325.

Symonds, R.B., Rose, W.I., Reed, M.H., Lichte, F.E., and Finnegan, D.L., 1987, Volatilization, transport and sublimation of metallic and non-metallic elements in high temperature gases at Merapi Volcano, Indonesia: Geochimica et Cosmochimica Acta, v. 51, p. 2083-2101.

Symonds, R.B., Rose, W.I., Gerlach, T.M., Briggs, P.H., and Harmon, R.S., 1990, Evaluation of gases, condensates, and SO2 emissions from Augustine volcano, Alaska: the degassing of a Cl-rich volcanic system: Bulletin of Volcanology, v. 52, p. 355-374.

Taran, Yu.A., Hedenquist, J.W., Korzhinsky, M.A., Tkachenko, S.I., and Shmulovich, K.I., 1995, Geochemistry of magmatic gases from Kudryavy volcano, Iturup, Kuril Islands: Geochimica et Cosmochimica Acta, v. 59, p. 1749-1761.

Valsami-Jones, E., Baltatzis, E., Bailey, E.H., Boyce, A.J., Alexander, J.L., Magganas, A., Anderson, L., Waldron, S., and Ragnarsdottir, K.V., 2005, The geochemistry of fluids from an active shallow submarine hydrothermal system: Milos island, Hellenic Volcanic Arc: Journal of Volcanology and Geothermal Research, v. 148, p. 130-151.

Viets, J.G., Hofstra, A.H., and Emsbo, P., 1996, Solute compositions of fluid inclusions in sphalerite from North American and European Mississippi Valley-type ore deposits: Ore fluids derived from evaporated seawater: Society of Economic Geologists Special Publications, v. 4, p. 165-182.

Von Damm, K.L., 1990, Seafloor hydrothermal activity: Black smoker chemistry and chimneys: Annual Review of Earth and Planetary Sciences, v. 18, p. 173-204.

Wilkinson, J.J., Everett, C.E., Boyce, A.J., Gleeson, S.A., and Rye, D.M., 2005, Intracratonic crustal seawater circulation and the genesis of subseafloor zinc-lead mineralization in the Irish orefield: Geology, v. 33, p. 805-808.