



May 29, 2019

Mr. Bob Koehler  
Colorado Oil and Gas Conservation Commission  
1120 Lincoln Street, Suite 801  
Denver, Colorado 80203

RE: Aquifer Exemption Request

SandRidge Exploration & Production LLC  
Pintail SWD 0780 2-16D  
API: 05-057-06566  
SHL: 1281' FSL & 1632' FWL  
16-7N-80W  
BHL: 929' FSL & 310' FEL  
16-7N-80W  
Jackson County, Colorado  
Surface: Fee  
Mineral Lease: Fee

Mr. Koehler:

SandRidge Exploration & Production LLC ("SandRidge") submitted a Form 33 for the Pintail SWD 0780 2-16D (Document Number 402025133), located in Jackson County, Colorado. In conjunction with the Form 33, SandRidge requests an Aquifer Exemption pursuant to Colorado Oil and Gas Conservation Commission ("COGCC"), Rule 324B.

SandRidge asserts that the requested Dakota/Lakota Aquifer Exemption meets the criteria of COGCC Rules 324B.a.(1) and 324B.a.(2) as the Dakota/Lakota Formation "does not currently serve as a source of drinking water" and "cannot, and will not in the future, serve as a source of drinking water because it is situated at a depth (~9000' MD+) and its location (over fifteen (15) miles from the nearest town of Walden) makes recovery of water for drinking water purposes economically or technologically impractical under current practice. The cost of drilling a water well to this depth, cleaning the water to drinkable standards and transporting via pipeline to Walden would be an estimated cost of approximately \$15 million. The aforementioned technical and economical challenge would be too great for Walden, and/or a single individual in the area.

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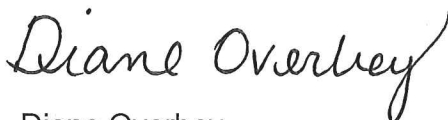
The Vaneta 1-32D (API: 05-057-06467) and Judy 1-30 SWD (API: 05-057-06466), both owned and operated by SandRidge, were granted an Aquifer Exemption for the Dakota/Lakota aquifer in 2014 and 2016 on a similar basis as stated above. The basis for which the Aquifer Exemption was granted for the abovementioned SWD wells, still holds true for the Pintail SWD 0780 2-16D.

The Dakota/Lakota formation is found at a depth of 9690' MD. The Dakota/Lakota formation water quality was determined from analyses performed on water/fluid swabbed from the wellbore, and contained approximately 3,200 mg/L of total dissolved solids. The water quality of the Dakota/Lakota formation is too contaminated to be used as quality drinking water. Based on information in the Colorado Division of Water Resources database, the nearest permitted water well is within two (2) miles of the Pintail SWD 0780 2-16D, and was drilled to 60' (Water Well Permit 94382-VE).

The injected fluids will be confined to the Aquifer Exemption boundary as SandRidge will limit injection rates to a maximum of 8500 bbls/day, with a surface injection pressure range from 1500-1750 psi. There is no known technical data that would lead SandRidge to believe the injected fluid would reach any known large fault.

Please contact me at 405-429-5828 or at [doverbey@sandridgeenergy.com](mailto:doverbey@sandridgeenergy.com) should you have any questions, or need additional information.

Best regards,



Diane Overbey  
Regulatory Analyst II