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Figure 3.1.6 Calculation for trapped CO₂ (Hosseini-noosheri, et al., 2018).

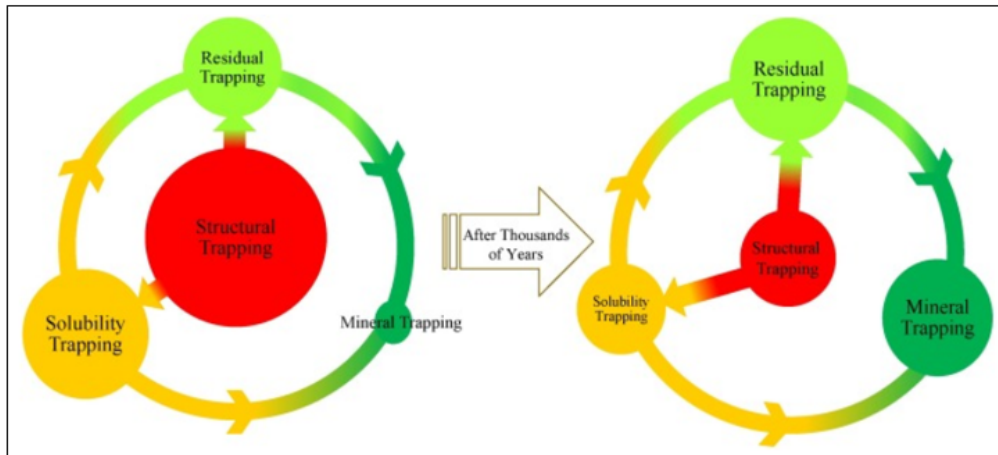


Figure 3.1.4 Change over time in structural trapping where structurally trapped CO₂ becomes more trapped residually and by solubility (Hosseini-noosheri, et al., 2018).

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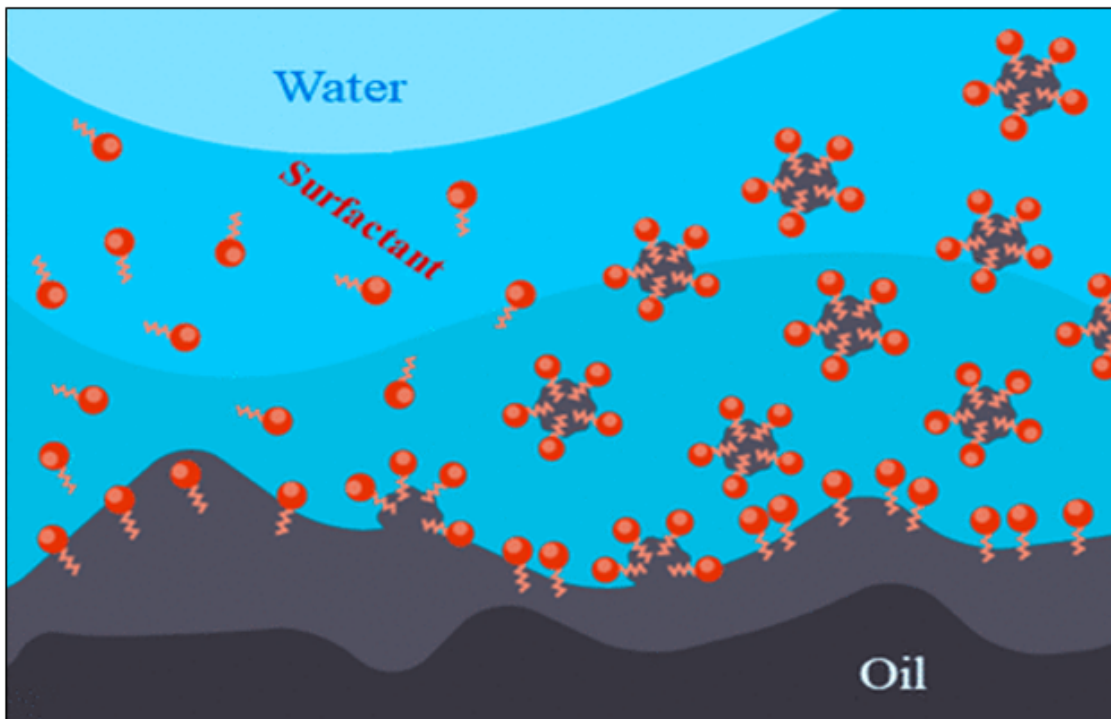


Figure 3.1.8 Illustration of the effect of a foaming agent created by enhancing CO₂ with nanoparticle surfactants to decrease the surface tension between water and oil and free up more hydrocarbons (Al-Shargabi, et. al., 2022).


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Temperature (°C)	71	0.14
Net oil thickness (m)	15	0.11
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Figure 3.3.2 Table weighting various parameters for suitable EOR reservoirs

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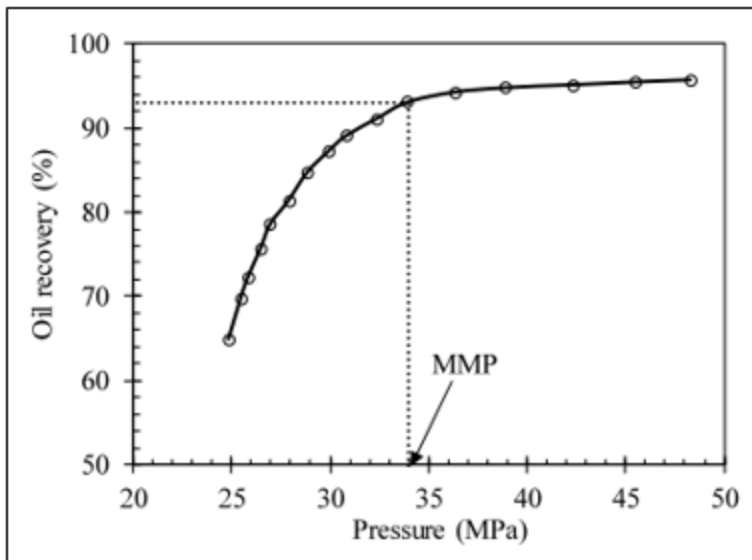
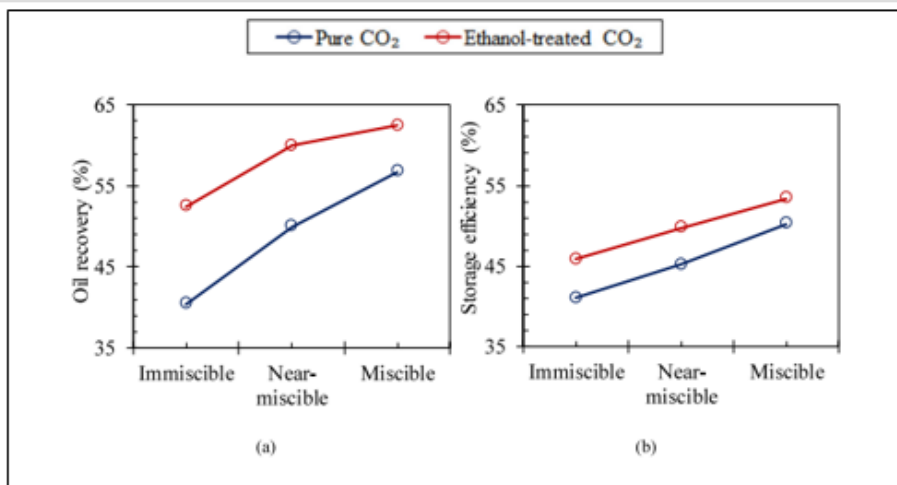


Figure 3.3.3 Representation to demonstrate when MMP reaches a steady state



Re: [EXTERNAL] RE: Permission to use Figures for Thesis

Chris Beliveau (Student) <cbeliveau@mines.edu>

Fri 1/12/2024 2:54 PM

To:Info <info@adv-res.com>

Thank you!! Will do!

-Chris

From: Info <info@adv-res.com>**Sent:** Friday, January 12, 2024 2:53 PM**To:** Chris Beliveau (Student) <cbeliveau@mines.edu>; Info <info@adv-res.com>**Subject:** [EXTERNAL] RE: Permission to use Figures for Thesis**CAUTION:** This email originated from outside of the Colorado School of Mines organization. Do not click on links or open attachments unless you recognize the sender and know the content is safe.

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Yes, you have our permission to use the images. Please cite "Advanced Resources International Inc."

From: Chris Beliveau (Student) <cbeliveau@mines.edu>**Sent:** Friday, January 12, 2024 1:05 PM**To:** Info <info@adv-res.com>**Subject:** Re: Permission to use Figures for Thesis

Hello,

I just want to politely follow-up on this. I'm hoping to hit a time sensitive deadline of today so would much appreciate anything you could provide.

Thanks so much for the help!

-Chris

From: Chris Beliveau (Student)**Sent:** Thursday, January 11, 2024 12:37 PM**To:** info@adv-res.com <info@adv-res.com>**Subject:** Permission to use Figures for Thesis

Hello,

I am a current MS Geology Student at the Colorado School of Mines. I am finishing up my thesis (Carbon Capture, Utilization, and Storage (CCUS) Potential for the Niobrara A and B Intervals at Redtail Field, Weld County, Colorado) and was planning on using a couple images (shown below) from (*A Survey of U.S. CO2 Enhanced Oil Recovery -- Updated to EOY 2019*)

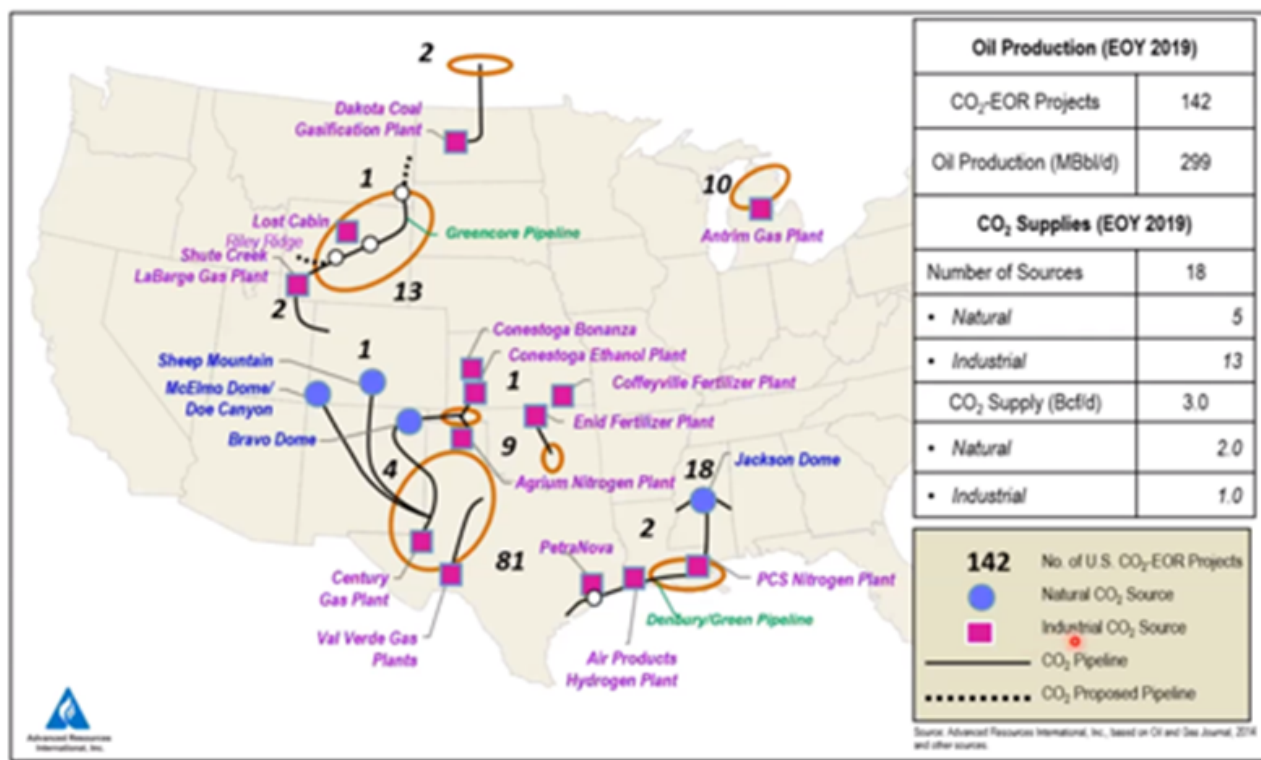
Could I please have your permission to use these?

Please let me know if you need additional information.

Thanks for your help!

-Chris Beliveau

Region	Updated U.S. CO ₂ EOR Survey (EOY 2019)		
	No. Projects	Enhanced Recovery* (MB/D)	CO ₂ Supply (MMcf/D)
Permian Basin (W TX, NM)	80	204.4	1,830
Gulf Coast (MS, LA, E TX)	25	43.3	600
Rockies (CO, WY, MT, UT)	17	38.8	445
Mid Continent (OK)	10	11.3	135
Mid West (MI)	10	1.4	20
Total	142	299.3	3,030





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Instructor Name	Chris Beliveau	Expected Presentation Date	2024-05-01

ADDITIONAL DETAILS

Order Reference Number	N/A
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The Requesting Person / Organization to Appear on the License Chris Beliveau

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Title, Description or Numeric Reference of the Portion(s)	2 Images-- Figure 5 (Ternary Plot), Figure 6 (Porosity, Permiability)	Title of the Article / Chapter the Portion Is From	N/A
Editor of Portion(s)	N/A	Author of Portion(s)	Society of Petroleum Engineers
Volume / Edition	N/A	Issue, if Republishing an Article From a Serial	N/A
Page or Page Range of Portion	Pages 9, 10	Publication Date of Portion	2015-12-31

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Last updated October 2022

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Re: [EXTERNAL] Re: Permission to Use Images for Thesis Work

CB Chris Beliveau (Student)
To: man04015

Thu 1/11/2024 12:15 PM

Thanks Scott! Appreciate it man.

From: Scott Manwaring <man04015@gmail.com>
Sent: Thursday, January 11, 2024 12:07 PM
To: Chris Beliveau (Student) <cbeliveau@mines.edu>
Subject: [EXTERNAL] Re: Permission to Use Images for Thesis Work

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Hi Chris,

Thanks for your email.

You have my permission to use the images. Please let me know if you need anything additional from me. Best of luck in getting finished soon!

Best regards,

Scott

On Thu, Jan 11, 2024, 12:58 PM Chris Beliveau (Student) <cbeliveau@mines.edu> wrote:

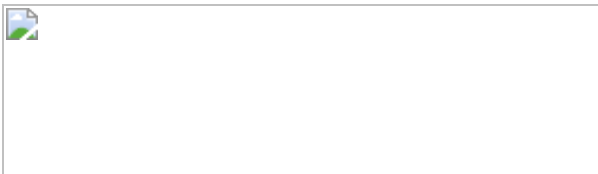
Hi Scott,

I hope all is well! I am getting ready to submit my thesis (Carbon Capture, Utilization, and Storage (CCUS) Potential for the Niobrara A and B Intervals at Redtail Field, Weld County, Colorado) and am using a couple images from your 2021 thesis (Reservoir Characteristics and Production of the Niobrara A Interval at Redtail Field: Weld County, Denver Basin, Colorado) shown below.

Could I please have your permission to use these images?

Thanks for the help!

-Chris



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[EXTERNAL] Re: Permission to Use Images for Thesis Work

AS Adam Simonsen <adamsimonsen303@gmail.com>
 To: Chris Beliveau (Student)

😊
↩️
↩️
➡️
🗄️
⋮

 Thu 1/11/2024 12:33 PM

Start reply with: Thank you! Thank you very much! Great, thank you so much!

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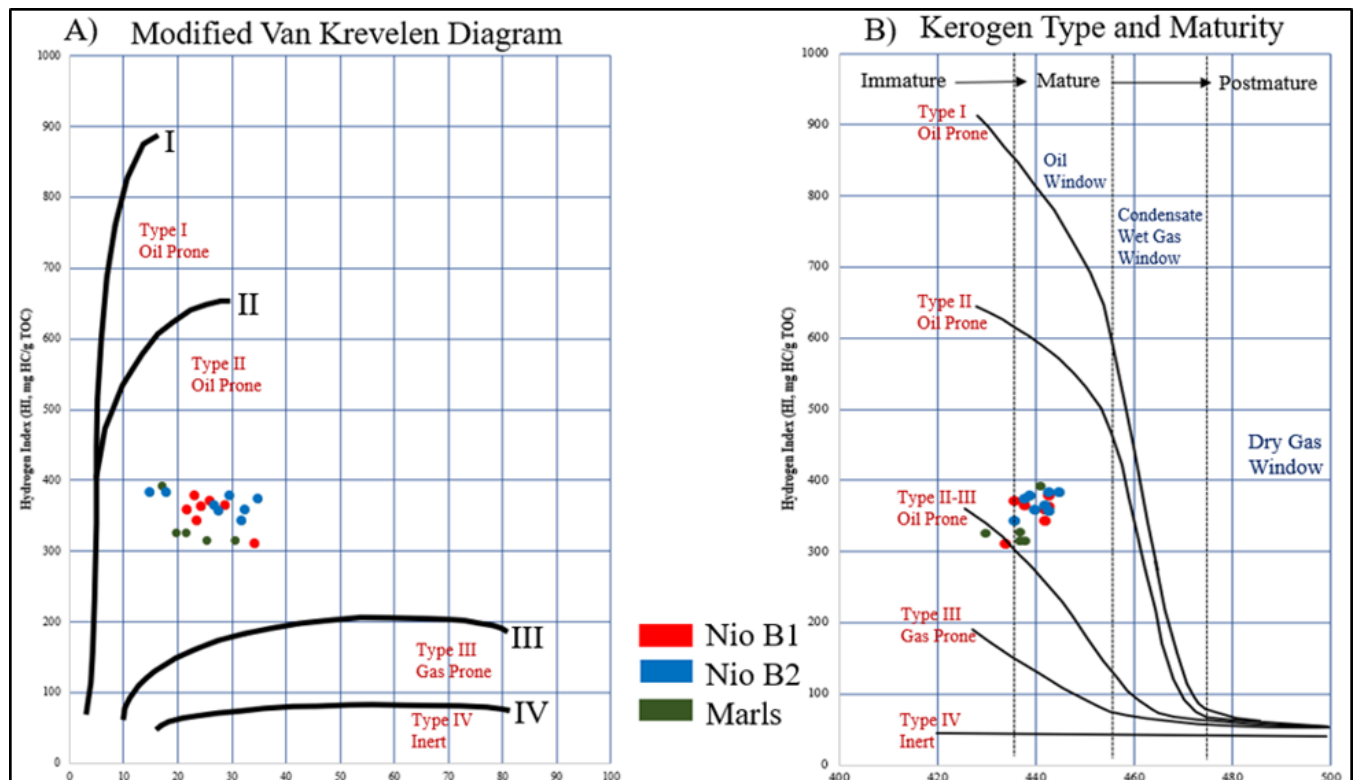
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Thanks,
 Adam Simonsen

On Thu, Jan 11, 2024 at 12:03 Chris Beliveau (Student) <cbeliveau@mines.edu> wrote:
 Hi Adam,

I hope all is well! I am getting ready to submit my thesis (Carbon Capture, Utilization, and Storage (CCUS) Potential for the Niobrara A and B Intervals at Redtail Field, Weld County, Colorado) and am using an image from your 2022 thesis (Geologic Reservoir Characterization of the Niobrara B Interval in Redtail Field: Weld County, Denver Basin, Northeast Colorado) shown below.

Could I please have your permission to use this image?



RE: Permission to Use Figure for Thesis

Ozan Uzun (Student) <uzun@mines.edu>

Thu 1/11/2024 9:27 PM

To: Chris Beliveau (Student) <cbeliveau@mines.edu>

Hello Chris,

Yes, you can use the image in your thesis as you wish.

Thanks & Regards,
Ozan

From: Chris Beliveau (Student) <cbeliveau@mines.edu>

Sent: Thursday, January 11, 2024 11:45 AM

To: Ozan Uzun (Student) <uzun@mines.edu>

Subject: Permission to Use Figure for Thesis

Hi Ozan,

I'd like to use the image below from your 2018 thesis "*Determining Osmotic Pressure in Niobrara Chalk and Codell Sandstone Using High-Speed Centrifuge*" for my thesis.

Could I please have your permission to do so?

Thanks,

Chris

