

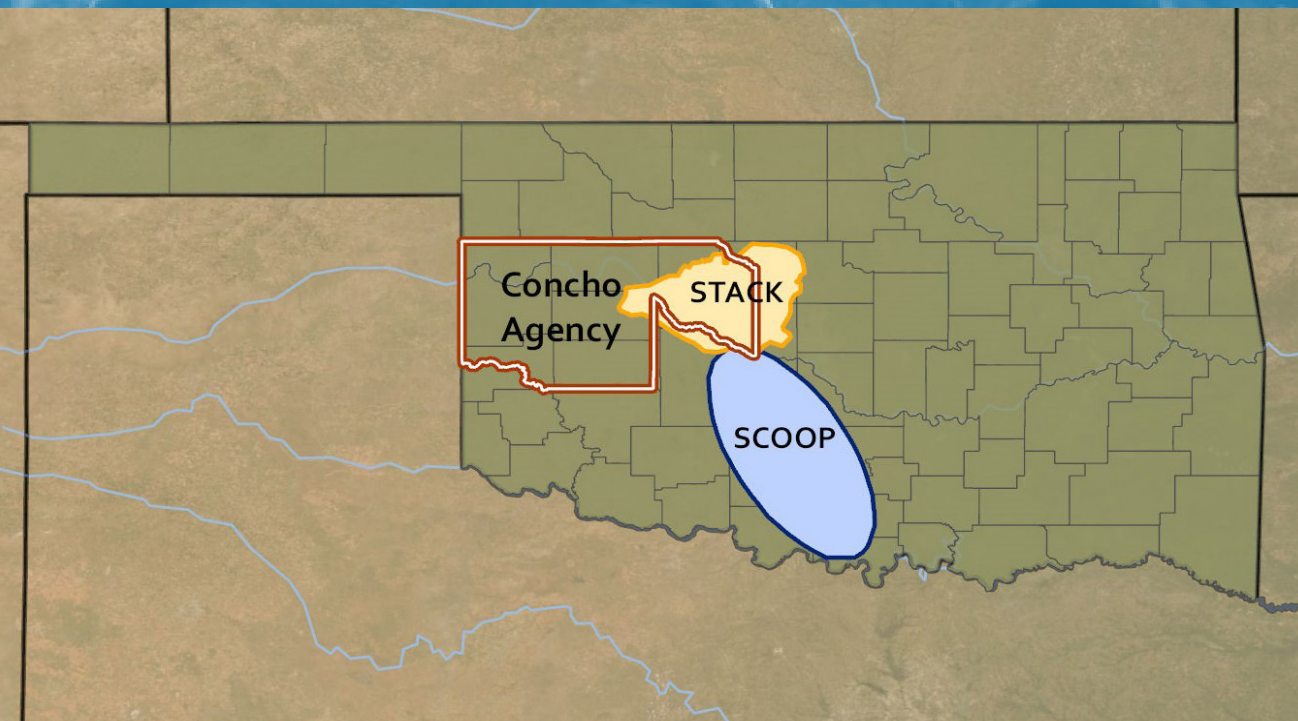


# CONCHO AGENCY

Cheyenne & Arapaho Allotted Lands  
Oklahoma

SUMMER NAPE 2020

## Oil and Gas Leasing Potential of Cheyenne and Arapaho Allotted Lands





IN REPLY REFER TO:  
Executive Direction

## United States Department of the Interior

BUREAU OF INDIAN AFFAIRS

Concho Agency

P.O. Box 68

El Reno, Oklahoma 73036

Mr. Joe Dellenbach  
Petroleum Geologist  
Division of Energy and Mineral Development  
13922 Denver West Pkwy, Ste 200  
Lakewood, CO 80401

July 25, 2020

Dear Mr. Dellenbach,

This will serve as my authorization to the Bureau of Indian Affairs, Division of Energy and Mineral Development, to showcase oil and gas resources within the jurisdiction of Concho Agency for the upcoming NAPE Conference.

Please feel free to use any media at your disposal to highlight the fluid mineral resources both Tribal and Allotted.

Should you have any questions please call me at (405) 422-7004.

Sincerely,

*Scotty McCorkle*

Superintendent

# CONCHO AGENCY CHEYENNE & ARAPAHO ALLOTTED LANDS

## Summary

The Allotted Trust lands of the Cheyenne-Arapaho Tribes are located in the BIA Concho Agency jurisdiction (see Figure 1). The land is held in Trust by the United States government for the benefit of the Indian Allottee. All of the lands fall in the prolific Anadarko Basin with some in the Core Areas of the STACK. There has been significant production in the basin in recent history, including on Trust lands, but there is still acreage available for lease and development. Allotted Leases are acquired through nominating the land tract and bidding on it at a competitive auction (see Attachment A: Leasing Procedure).

## Cheyenne-Arapaho Tribes

Tsistsistas, is the Cheyenne word meaning “Human Beings” or “The People.” The Cheyenne are descended from an ancient, Algonquian-language speaking tribe referred to as Chaa. They were also historically referred to as the *Marsh People* of the Great Lakes region, as they lived along the head of the Mississippi River in the central part of what is now Minnesota.

The Cheyenne and Arapaho Tribes became allies and formed into one Nation. Around the 1830s the Cheyenne

were trapping beaver and buffalo and tanning the hides for trading purposes. Economic trade with the French, Europeans, and others began along the Arkansas River in what is now southeastern Colorado, near and at Bent’s Old Fort.

Hinono’ei, the Arapaho people, lived in the Great Lakes region along the Mississippi River. Around 1680, they began to migrate out of the Great Lakes area after being forcibly moved or pushed out of their established territory by the whites and traditional enemy tribes. Their adaptation to newer lands on the vast Great Plains and their will to survive and advance their people included making weapons such as the bow and arrow and the spear. As the horse and the buffalo flourished, the Arapahos became self-sustaining in their new territory.

Today, the Cheyenne and Arapaho are federally recognized as one tribe and known as the Cheyenne and Arapaho Tribes. However, while the tribes function as one Nation, each tribe still maintains their culture, traditions, customs, social dances, ceremonies, and languages.

### Learn more about Cheyenne & Arapaho Tribes:

<https://cheyenneandarapaho-nsn.gov/>





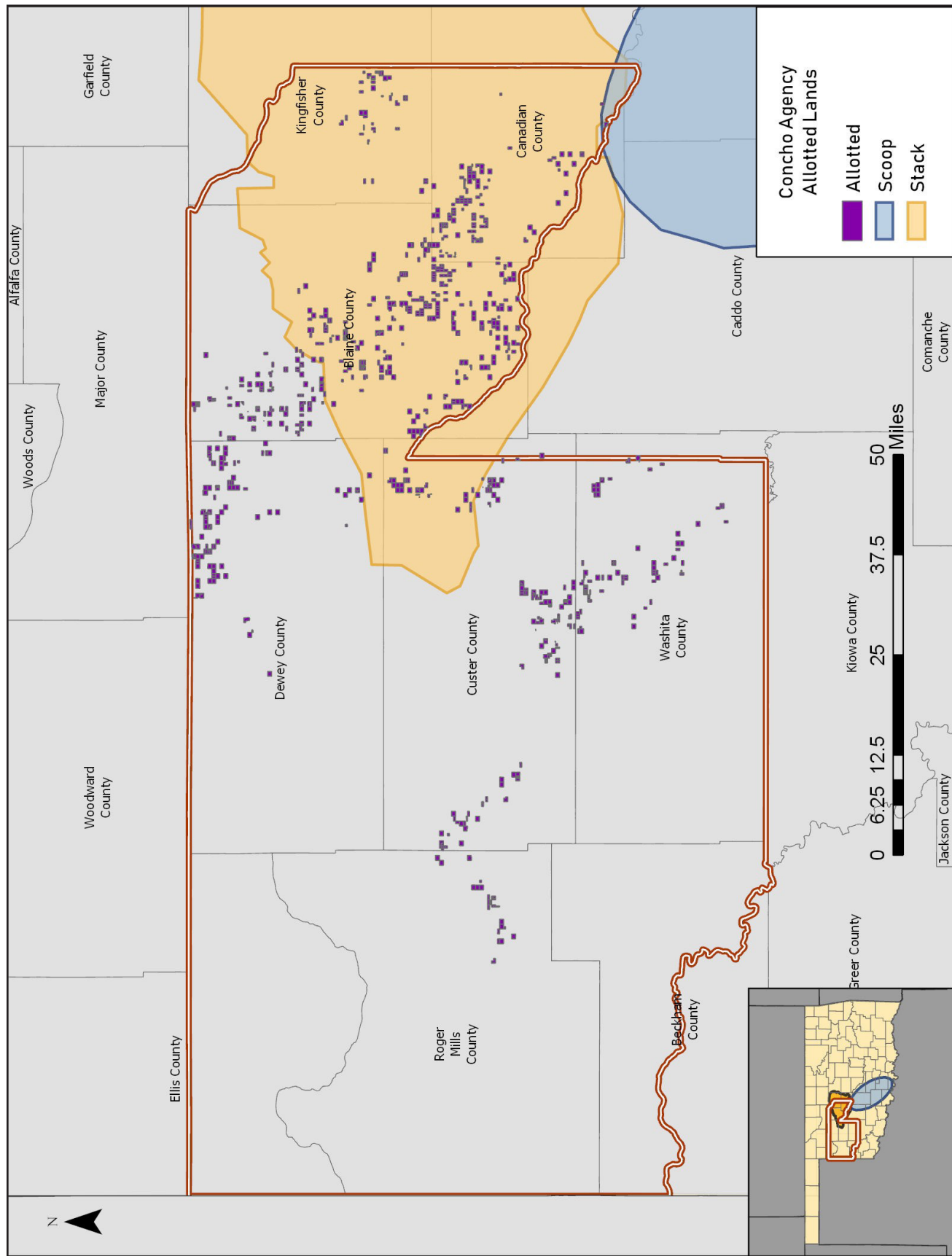


Figure 1. Concho Agency jurisdiction and allotted lands.



## Geologic Overview and Oil and Gas Plays

### Anadarko Basin

The Anadarko Basin is an asymmetrical basin that lies mainly within central to western Oklahoma, but also touches into the Texas Panhandle, southeastern Colorado and southwestern Kansas covering an area of around 60,000 sq. mi. The basin is bounded by the Wichita-Amarillo Uplift to the south, the Nemaha Uplift to the east, and the Cimarron arch to the west (see Figure 2).

Igneous activity led to the emplacement of Early and Middle Cambrian rocks forming the Wichita Uplift and deep Anadarko Basin. During the Late Cambrian through the Mississippian about 15,000 ft of shallow-marine carbonates and fine-grained clastic sediments were deposited into the basin. Later during the Pennsylvanian orogenic episode, downwarping of the crust beneath the basin allowed nearly 18,000 ft of marine sediments to deposit within the basin. The basin was then filled with around 7,000 ft of red beds and evaporites covering the Permian through Holocene time. The Triassic through Quaternary strata are largely

represented by erosional remnants (Johnson et. al., 1989).

These depositional events resulted in the stratigraphy of the basin consisting of many prolific oil and gas-producing formations. The first oil and gas discovery occurred in 1917 from the Cement anticline, but production is still occurring throughout the basin to this day.

### SCOOP/STACK Play

The South Central Oklahoma Oil Province (SCOOP) play and the Sooner Trend (oil field) Anadarko (basin) Canadian and Kingfisher (counties) (STACK) play cover the southeastern part of the Anadarko Basin in central and south central Oklahoma.

The majority of allotted lands from the Concho Agency are within Blaine, Canadian, Custer, Dewey, Kingfisher and Washita counties, which lie within the STACK play. Horizontal wells exceed 95% of wells drilled in the area where the main targets are the Mississippian and Woodford.

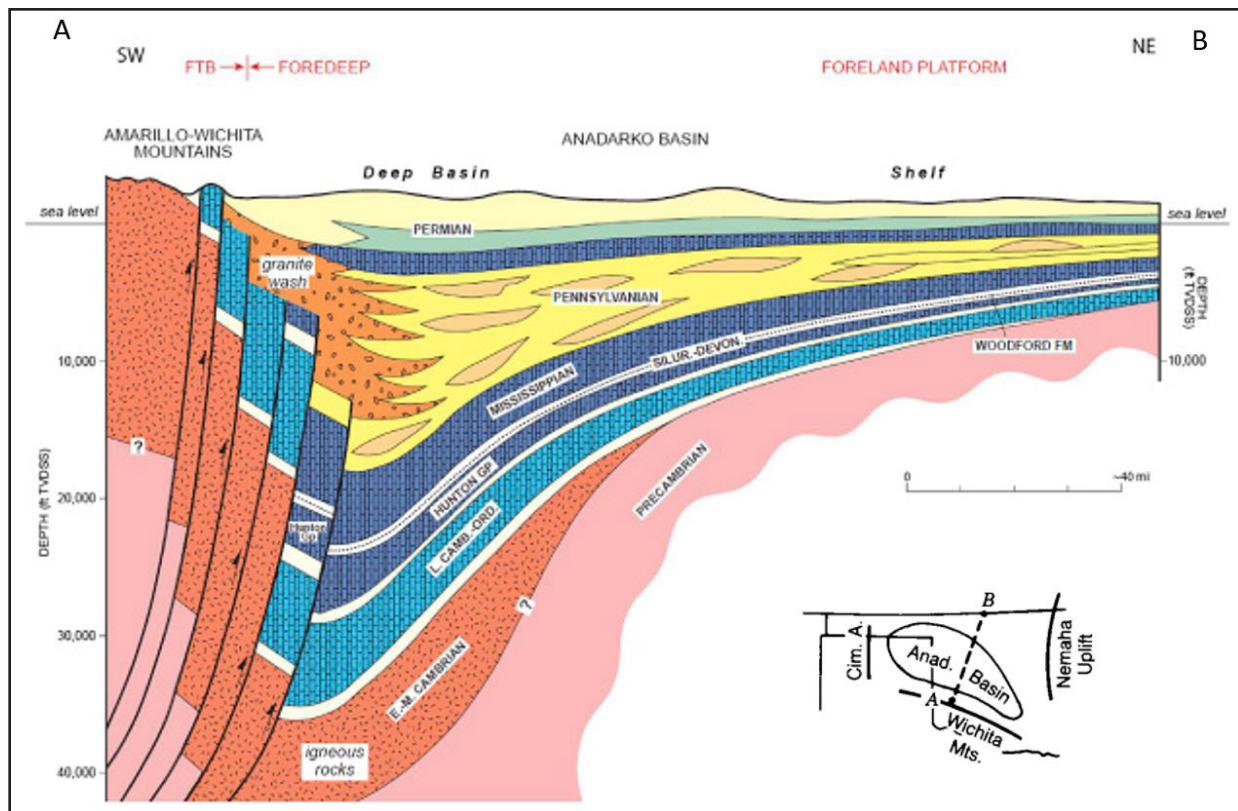


Figure 2. Generalized cross section from southwest to northeast of the Anadarko Basin. (Johnson et al., 1989).

Mississippian age formations such as the Meramec, Osage and Springer Shale represent current targets in the play (see Figure 3). These Mississippian Formations are composed of carbonates and shales and are believed to contain the majority of the hydrocarbons in the STACK play. The Meramec Formation represents a fine-grained clastic reservoir, which has gained the highest interest for hydrocarbon exploration in recent years. The Meramec is partially self-sourced, but also shows imprints from the Woodford and Caney as source rocks. The Woodford Shale was an early target in the STACK play and still gains interest for oil and gas production in the area.

### Oil and Gas Activity in the Region

The oil and gas prone region within the Concho Agency jurisdiction area covers Dewey, Custer, Washita, Blaine, and Canadian counties. The figures show allotments and tribal lands in relation to the major SCOOP and STACK plays. These plays have been very active and promising and are in close proximity to Cheyenne and Arapaho tribal lands. Within this region, 14,032 wells have been drilled. About 4,063 of those wells are strictly active gas wells and 2,030 are active oil wells. Production from the active wells are from the Woodford, Osage, Springer Shale, Meramec, Red Fork, Oswego, Skinner, and Morrow Formations, with some production from other formations.

Figure 4 shows recent oil and gas activity within this region and allotted lands. Figures 5 and 6 show open Mississippian acreage. Figure 7 and 8 show open Woodford acreage. Much of the oil and gas activity is seen in the STACK region. A large portion of tribal acreage is located within the STACK region; most of that acreage is leased, but there is some opportunity to lease acreage near and beyond the STACK boundaries. The maps show 1,587 wells have been producing since January 1, 2015, within the region. Of those wells, 1,566 are horizontal wells. The majority of those wells are producing from the Mississippian and Woodford Formations, with production from the Meramec, Cleveland, Cherokee, Cottage Grove and Desmoinesian Formations. Records show that permits have been approved for new wells as late as June 24, 2019, showing that this region is still very active. The last

permit approved was submitted for production from the Red Fork Formation, indicating that there are many opportunities for production beyond the Mississippian and Woodford Formations.

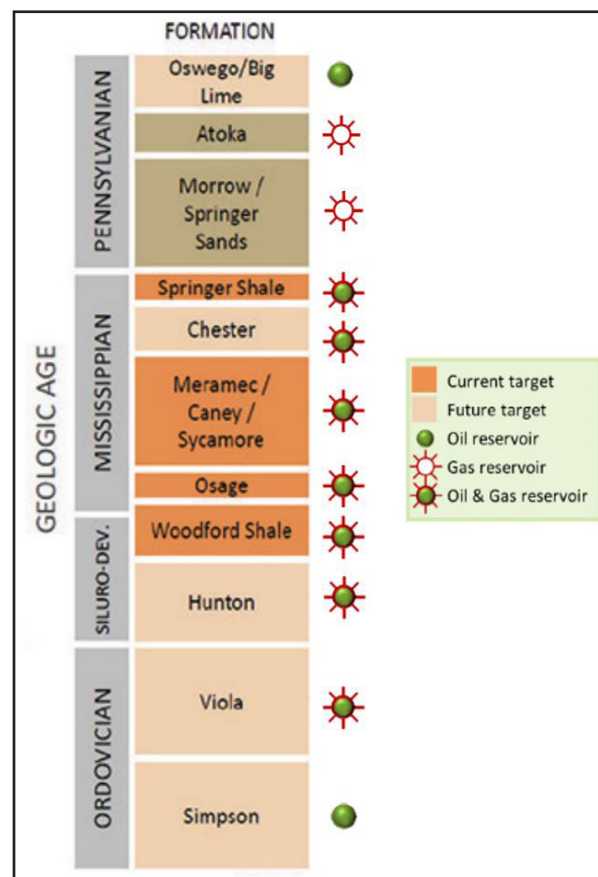


Figure 3. Stratigraphic column of the Anadarko Basin from Ordovician to Pennsylvanian time (Newfield Exploration).

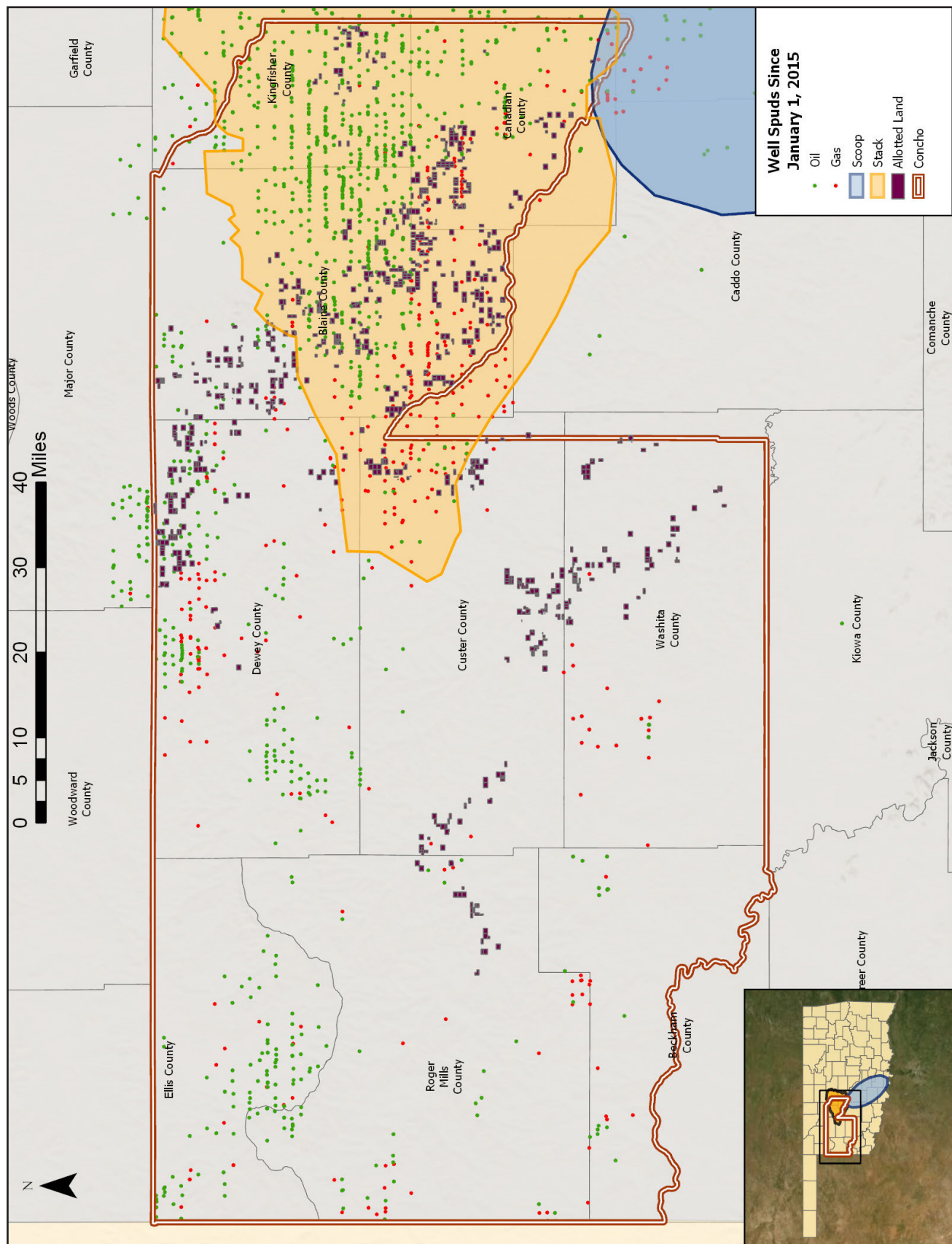


Figure 4. Concho Agency jurisdiction displaying allotted lands and recent oil and gas activity.



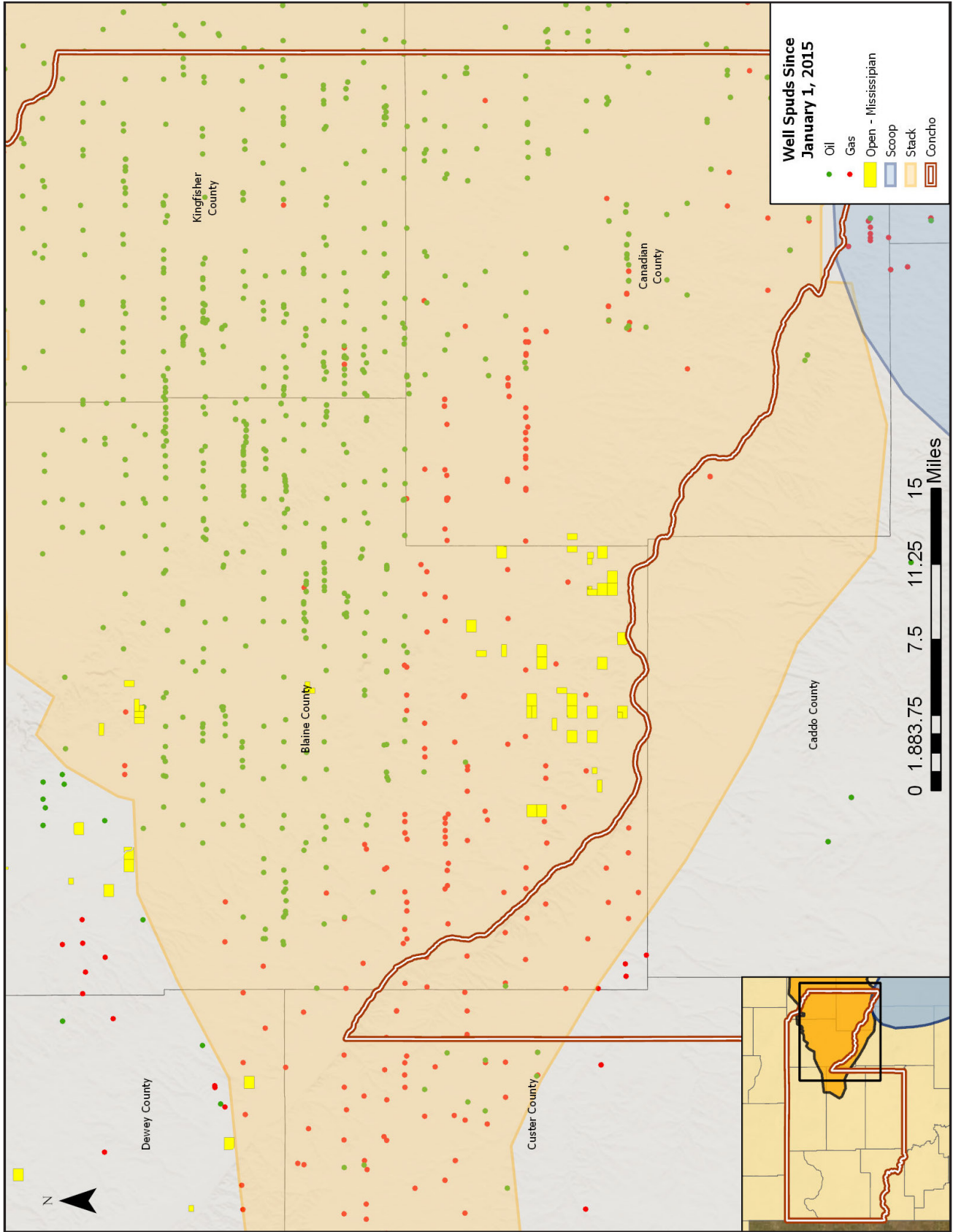


Figure 5. Open Mississippiian acreage within core STACK area and recent oil and gas activity.

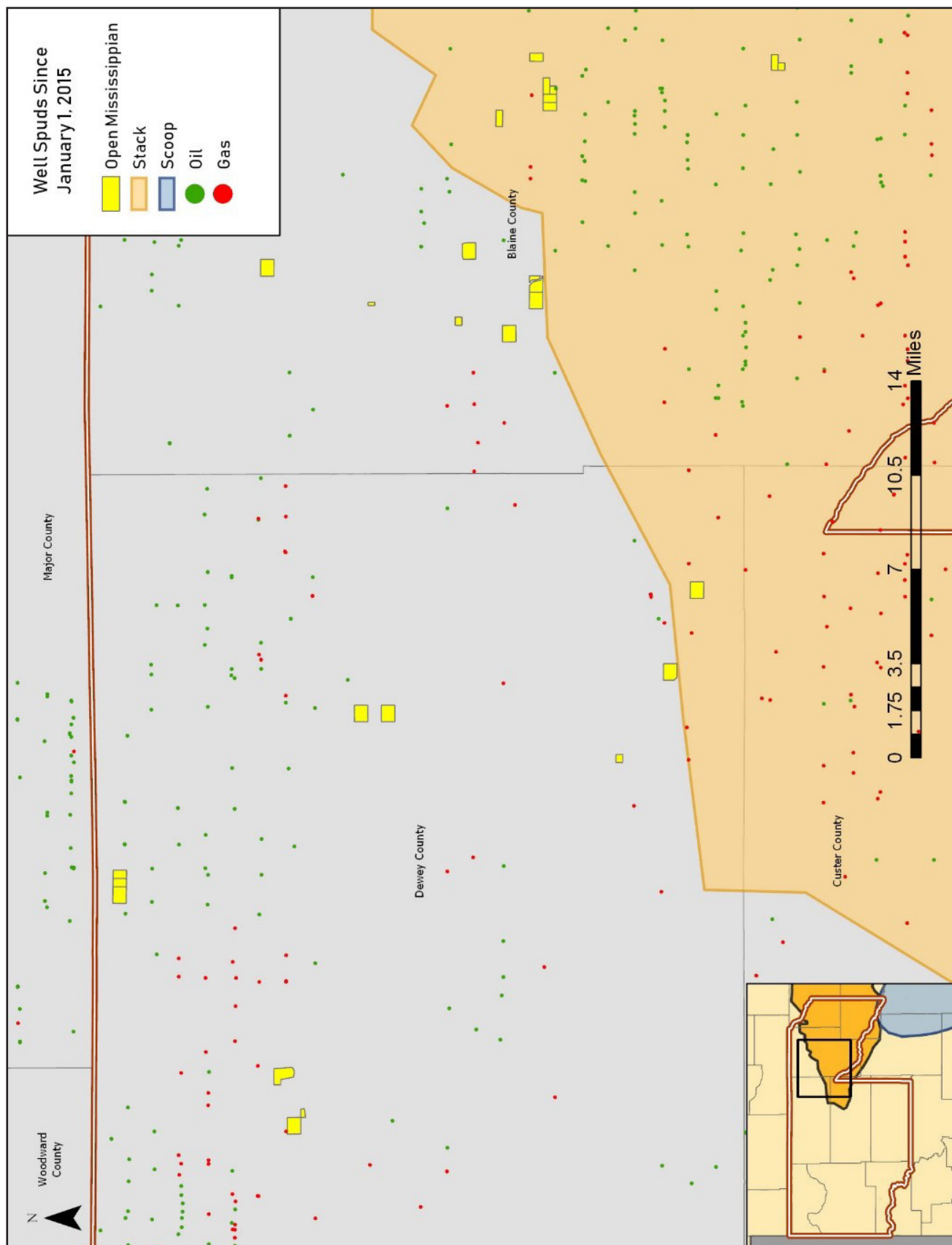


Figure 6. Open Mississippiian acreage in Dewey and northern Blaine counties and recent oil and gas activity.

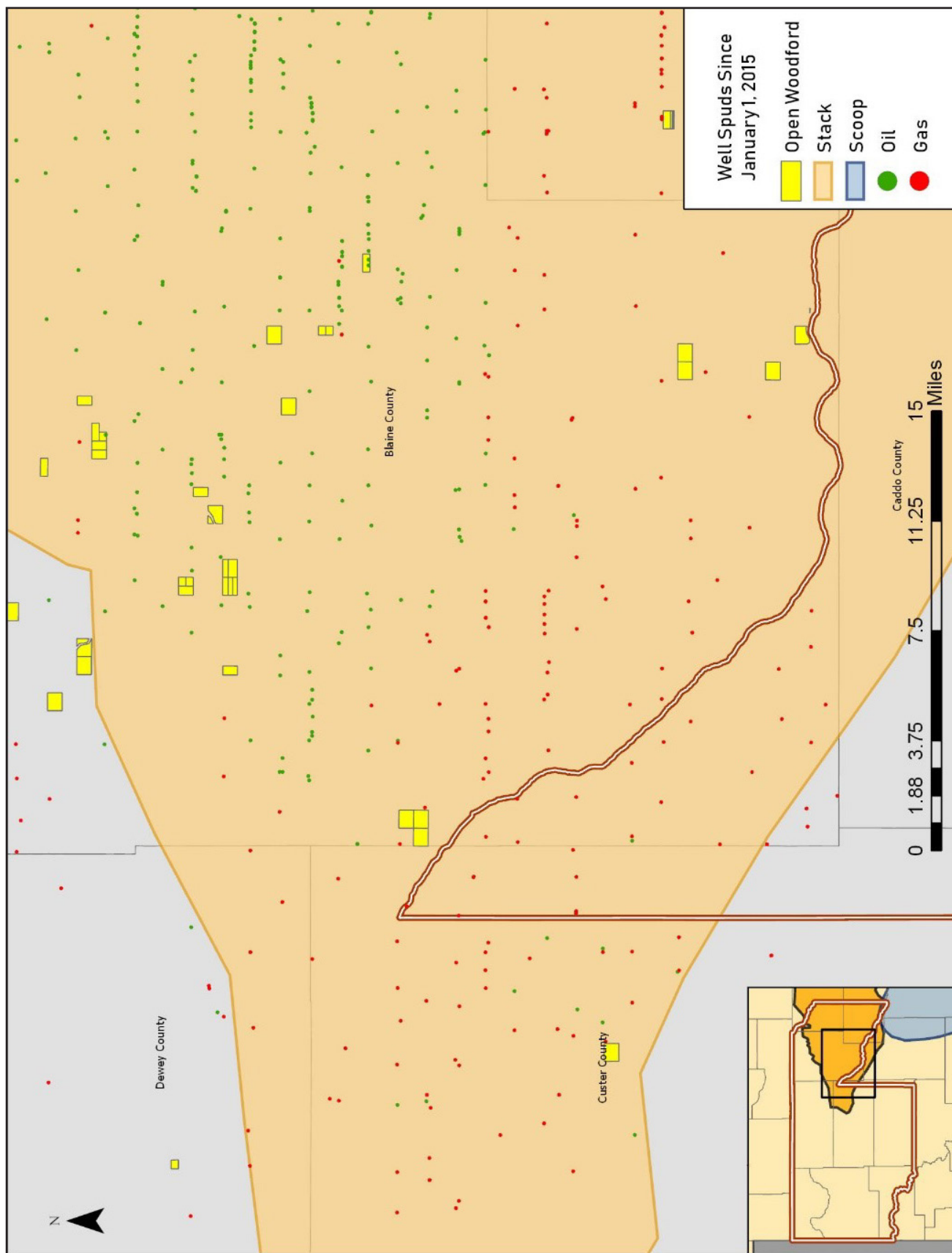


Figure 7. Open Woodford acreage within core STACK area and recent oil and gas activity.



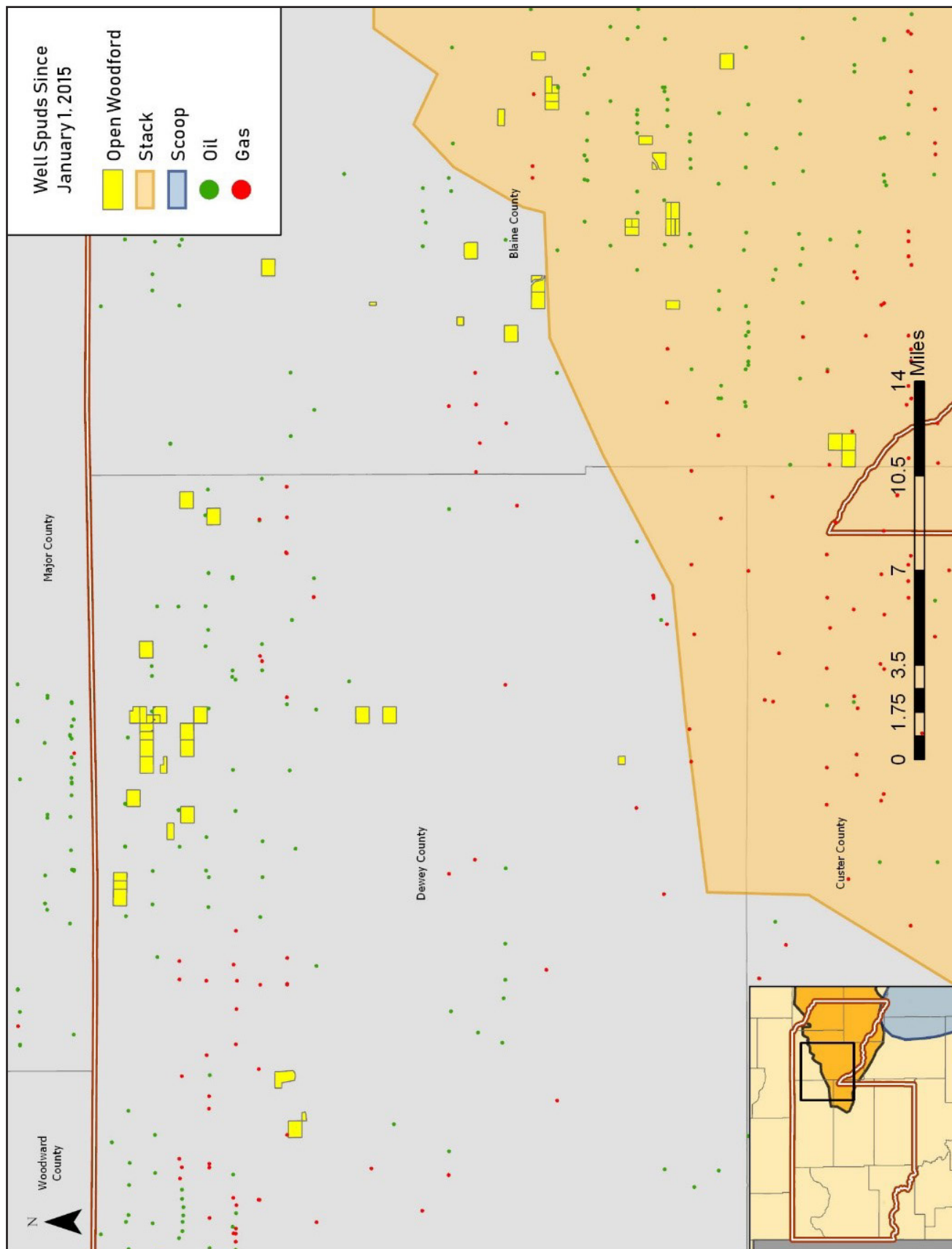


Figure 8. Open Woodford acreage in Dewey and northern Blaine counties and recent oil and gas activity.

## Attachment A

### Leasing Procedure



## AUCTION OF OIL AND GAS MINING LEASES CHEYENNE-ARAPAHO TRIBAL AND ALLOTTED LANDS

Department of the Interior, Bureau of Indian Affairs, Concho Agency

**Oral Auction Only – Thursday, November 30, 2017 at 9am**

Location: Canadian Valley Vo-Tech, 6505 East Highway 66, 73036 El Reno, OK \*

ABSOLUTELY NO CHECKS WILL BE ACCEPTED. 100% OF THE TOTAL BONUS, RENTAL AND FILING FEE WILL BE PAID IMMEDIATELY UPON RECEIPT OF AN INVOICE. ELECTRONIC PAYMENTS ARE ENCOURAGED THROUGH [WWW.PAY.GOV](http://WWW.PAY.GOV).

### SALE PROVISIONS:

Oral Auction Provisions - Oral auction will be conducted for the leasing of restricted Indian lands described on the attached schedule for oil and gas mining purposes. All bids will be recorded and determination made for auction items on the same day. This sale will be conducted under regulations promulgated by the Secretary of the Interior, Title 25, CFR 212 (Act of March 3, 1909, 35 Stat. 781-783; 25 U.S.C. 396) as to allotted lands, and Title 25, CFR 211 (Act of May 11, 1938, 52 Stat. 347; 25 U.S.C. 396 A-F) as to the leasing of Tribal lands, with exception to 212.20(b)(3) through 212.20(b)(5) by waiver granted from the Acting Assistant Secretary of Indian Affairs dated 5/31/2012. The specified tracts of land are being offered subject to the acceptance by the individual Indian owners of the allotted land. A separate lease will be drawn on the applicable forms for each tract of land.

**The Superintendent reserves the right to withdraw, add or correct a legal description or item, and reject any bid and to disapprove any lease submitted on an accepted bid.**

Subject to the foregoing, leases will be sold to the bidder who offers the highest bonus money on a per tract basis subject to a review by the Bureau of Land Management, Division of Land Management, Division of Lands & Minerals. On tracts receiving only one (1) bid, the bidder will be given one (1) opportunity to improve the bid. Conditional or alternate bids will not be considered, unless advertised as such. No drilling propositions will be considered as part of the bonus offer.

**FULL PAYMENT OF BONUS, RENTAL AND FEES IS DUE IMMEDIATELY UPON RECEIPT OF THE INVOICE.**

Within thirty (30) days after notification of being the successful bidder, the bidder must submit the lease in completed form. The Superintendent may, for good and sufficient reasons, extend the period for completing and filing the lease. In addition to all other remedies provided by law, failure of the successful bidder to comply with the terms of the sale will render 25% of the total bonus bid theretofore paid by him forfeited for the use and benefit of the Indian owner without further action on the part of this office.

Lessees shall furnish with each lease a corporate Surety Bond, with surety acceptable to the United States, in the amount of \$2,500.00 per lease, subject to an increase should drilling commence on subject lease, or the lessee may file a Collective Bond (Form 5-5430) in the sum of \$75,000.00 for all leases of minerals in the Southern Plains Region. In lieu of the foregoing bonds, a lessee may furnish a \$150,000.00 Nationwide Oil and Gas Lease Bond (Form 5-5438) for full nationwide coverage with an acceptable company authorized to act as sole surety to cover all oil and gas leases or permits to which the lessee may become a party.

## Leasing Procedure (continued)

Important Notice: All successful bidders will be required to prepare their own leases and obtain signatures of the required percentage of consents of all Indian lessors of allotted lands. Pursuant to the Indian Land Consolidation Act Amendments of 2000 Sec. 219 (b)(1), as amended by the American Indian Probate Reform Act, a sliding scale is used to determine approval. If there are 5 or fewer landowners, 90% of the owner interest will be needed. More than 5 but fewer than 11 landowners, 80% of signatures are needed. If there are more than 10, but fewer than 20, the percentage is 60%. In the event there are 20 or more, only a majority of the signatures are necessary; however, we require all owners be contacted with an opportunity to sign the lease.

Leases will be drawn on the standard lease form used in the Southern Plains Region (AAO-81), which may be obtained from the Superintendent of the Concho Agency. The successful bidder assumes the responsibility of obtaining the appropriate lease forms. Unless otherwise noted in the schedule, the leases on allotted Indian lands will be drawn for a maximum term of three (3) years from the date of approval by the Superintendent, Concho Agency, El Reno, Oklahoma, and as long thereafter as oil/and or gas is produced in paying quantities. The rate of royalty on allotted lands is twenty percent (20%) on all leases. The rental of \$3.00 per acre in advance for any one year is not considered as a credit on the royalty.

On those tracts listed in which an undivided restricted interest is offered for lease, bids will be accepted and interests considered for leases on the undivided restricted interest only. The prospective lessee will be responsible for arranging for payment to those owners (non-Indian) of undivided unrestricted interests.

If the lessee shall commence drilling with a rig designed to go to the total proposed depth and such drilling shall commence by midnight on the last day of the primary term of the lease and shall continue until the well is fully completed to production or abandoned, the lessee shall have the right to drill such well to completion with reasonable diligence and this lease shall continue and be in force with like effect as if such well had been completed within the primary term of said lease. All Departmental leases awarded under this advertisement contain a provision that all acreage not included in a unit and not producing or upon which drilling operations have not commenced shall be released at the expiration of the primary term; and further, that the lease(s) shall terminate as to all non-producing formations at the expiration of the primary term of the lease. Also included are provisions that address surface damages and geological or geophysical permits.

Please address all questions pertaining to this notice to the Oil & Gas section at 405-262-7481.

*The Bureau of Indian Affairs will not be responsible for information regarding this auction that may have been conveyed or obtained from any third party.*

  
Concho Agency Acting Superintendent  
10/25/2017

### **Driving directions:**

**From the north:** Travel south on U.S. Highway 81 until you reach SE 27th St. (also State Highway 66). Turn left (east) approximately 3 miles to the campus.

**From the south:** Travel north on U.S. Highway 81 and continue north 1/4 mile past the Interstate 40 overpass. Turn right (east) onto SE 27th St./State Highway 66 (also Historic Route 66). Follow approximately 3 miles to the campus.

**From the east:** Exit westbound Interstate 40 at Banner Road. Turn right (north) at the Shell gas station and then left (west) onto State Highway 66. Follow approximately 2 miles to the school.

**From the west:** Exit eastbound Interstate 40 at the U.S. 81 exit. Turn left (north) and continue for 1/2 mile. Turn right (east) at SE 27th St. (also State Highway 66). Follow approximately 3 miles to the campus.



## **References**

Johnson, K.S. et al., 1989, Anadarko Basin symposium, 1988: OGS Circular 90.



## CONTACT INFORMATION

For more information about the Cheyenne and Arapaho Allottees and access to geologic data, please contact:



### Concho Agency

Bureau of Indian Affairs  
1635 East Hwy 66  
El Reno, OK 73036

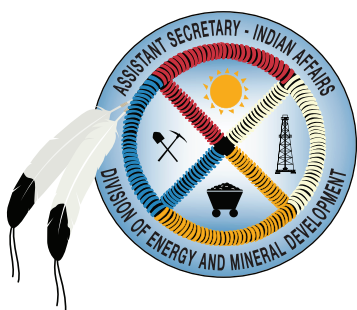
**Scotty McCorkle**  
Superintendent  
Concho Agency  
Bureau of Indian Affairs  
[scotty.mccorkle@bia.gov](mailto:scotty.mccorkle@bia.gov)  
(405) 422-7004

### Division of Energy and Mineral Development

13922 Denver West Parkway, Ste. 200  
Lakewood, CO 80401  
<http://bia.gov/DEMD>

**Jerry Cuzella**  
Branch Chief, Fluid Minerals  
[jerome.cuzella@bia.gov](mailto:jerome.cuzella@bia.gov)  
(720) 407-0619

Assistant Secretary–Indian Affairs  
Office of Indian Energy and Economic Development  
Division of Energy and Mineral Development



Above: Structure 3 Lightning by Daniel Rodriguez, taken near El Reno, OK, <https://flic.kr/p/eAh5uU>, edited.

Back cover: Buffalo in Rocky Mountain Arsenal National Wildlife Refuge, Denver, Colorado by mark byzewski, <https://flic.kr/p/Z8UrEg>, edited.

