

BEFORE THE INDUSTRIAL COMMISSION  
OF THE STATE OF NORTH DAKOTA

CASE NO. 24708  
(CONTINUED)  
ORDER NO. 27069

IN THE MATTER OF A HEARING CALLED ON  
A MOTION OF THE COMMISSION TO  
CONSIDER THE A MOTION OF THE  
COMMISSION TO REVIEW THE  
TEMPORARILY ABANDONED STATUS OF  
THE C12 ENERGY: ND LLC #08 DICKINSON-  
HEATH-SAND UNIT (FILE NO. 4919) LOCATED  
IN THE NWSE OF SECTION 22, T.140N., R.96W.,  
DICKINSON FIELD, STARK COUNTY, ND,  
PURSUANT TO NDCC § 38-08-04.

ORDER OF THE COMMISSION

THE COMMISSION FINDS:

(1) This cause originally came on for hearing at 9:00 a.m. on the 17th day of December, 2015. C12 Energy, ND LLC (C12) did not appear at the hearing. The hearing officer rescheduled the case for hearing on February 24, 2016. Tyson Taylor was given notice of December's hearing via email, but he is no longer with C12 so the case was docketed for February to allow C12 to appear.

(2) This hearing was on a motion of the Commission to review the temporarily abandoned (TA) status of the C12 #08 Dickinson-Heath-Sand Unit well (File No. 4919) located in the NW/4 SE/4 of Section 22, Township 140 North, Range 96 West, Dickinson Field, Stark County, North Dakota, pursuant to North Dakota Century Code (NDCC) Section 38-08-04.

(3) NDCC Section 38-08-04 states in part a surface owner may request a review of the TA status of a well that has been TA for at least seven years. The Commission shall require notice and hearing to review the TA status. After notice and hearing, the surface owner may request a review of the TA status every two years. The Commission received an email November 8, 2015 from the surface owner, Ron Kary requesting the Dickinson-Heath-Sand Unit #08 well be plugged and the site reclaimed.

(4) The original TA status for the Dickinson-Heath-Sand Unit #08 well was approved by the Commission on October 18, 1989. The well has been on TA status since that time. C12 became the operator of the well on October 17, 2013.

(5) C12 testified the Dickinson-Heath-Sand Unit #08 well is located in the Dickinson-Heath-Sand Unit. The Dickinson-Heath-Sand Unit, along with other units in the area, is a candidate for carbon dioxide (CO<sub>2</sub>) injection. C12 submitted evidence indicating CO<sub>2</sub> injection into the Dickinson-Heath Sand Unit will enhance the oil recovery from the Unit. C12 has been in discussions with Dakota Gasification Company to bring CO<sub>2</sub> to the area. However, to justify bringing CO<sub>2</sub> to the area, other units would need to be included in the planning. C12 is attempting to acquire other fields in the area to move forward with the CO<sub>2</sub> project.

(6) C12 requests the Dickinson-Heath-Sand Unit #08 well remain on TA status to allow future use as a potential CO<sub>2</sub> injection well or oil production well once CO<sub>2</sub> injection commences.

(7) In order to prevent the drilling of unnecessary wells and to prevent waste, the Dickinson-Heath-Sand Unit #08 well should remain on TA status.

IT IS THEREFORE ORDERED:

(1) The temporarily abandoned status for the C12 Energy, ND LLC #08 Dickinson-Heath-Sand Unit well (File No. 4919) located in the NW/4 SE/4 of Section 22, Township 140 North, Range 96 West, Dickinson Field, Stark County, North Dakota, is hereby affirmed.

(2) This order shall remain in full force and effect until further order of the Commission.

Dated this 7th day of April, 2016.

INDUSTRIAL COMMISSION  
STATE OF NORTH DAKOTA

By the Director, on behalf of the Commission

/s/ Lynn D. Helms, Director

SFN 5729

STATE OF NORTH DAKOTA

AFFIDAVIT OF MAILING

COUNTY OF BURLEIGH

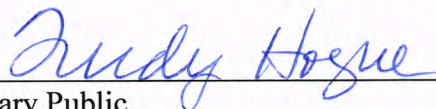
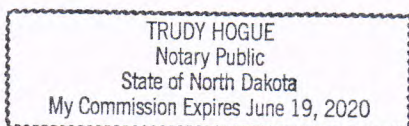
I, Belinda Dickson, being duly sworn upon oath, depose and say: That on the 11th day of April, 2016 enclosed in separate envelopes true and correct copies of the attached Order No. 27069 of the North Dakota Industrial Commission, and deposited the same with the United States Postal Service in Bismarck, North Dakota, with postage thereon fully paid, directed to the following persons by the Industrial Commission in Case No. 24708:

JOHN MORRISON  
CROWLEY FLECK PLLP  
PO BOX 2798  
BISMARCK ND 58502



Belinda Dickson  
Oil & Gas Division

On this 11th day of April, 2016 before me personally appeared Belinda Dickson to me known as the person described in and who executed the foregoing instrument and acknowledged that she executed the same as her free act and deed.



Notary Public  
State of North Dakota, County of Burleigh

## Kadrmass, Bethany R.

---

**From:** Ron Kary <metalengr\_rkary@hotmail.com>  
**Sent:** Friday, February 26, 2016 7:39 PM  
**To:** Kadrmass, Bethany R.  
**Subject:** Re: Well Site Plug / Reclamation Request Doc. #4919 Site

Thank you Much.  
Ron @ Metal Engineering Co.  
2-26-'16

---

**From:** Kadrmass, Bethany R. <brkadmss@nd.gov>  
**Sent:** Friday, February 26, 2016 8:19 PM  
**To:** metalengr\_rkary@hotmail.com  
**Cc:** Hogan, Hope L.; Hicks, Bruce E.  
**Subject:** FW: Well Site Plug / Reclamation Request Doc. #4919 Site

Mr. Kary,

NDIC Case 24708 was heard on February 24, 2016. Pursuant to NDAC § 43-02-03-90.2., written comments must be received by 5 pm on the last business day prior to the hearing. I've set your email address up to receive an auto generated email notification when an order is entered in this case.

Please let me know if you have additional questions.

Bethany Kadrmass  
North Dakota Oil and Gas Division  
P: 701-328-8020 | F: 701-328-8022  
[brkadmss@nd.gov](mailto:brkadmss@nd.gov) | [www.dmr.nd.gov/oilgas](http://www.dmr.nd.gov/oilgas)

---

**From:** Ron Kary [[mailto:metalengr\\_rkary@hotmail.com](mailto:metalengr_rkary@hotmail.com)]  
**Sent:** Thursday, February 25, 2016 5:18 PM  
**To:** Kadrmass, Bethany R.  
**Subject:** RE: Well Site Plug / Reclamation Request Doc. #4919 Site

NDIC  
Bismarck, ND 58505  
Attn: Bethany Kadrmass

NEED YOUR HELP!

See attached Document to be added to the review of well site by Commission.  
I talked with David and Cody on this matter.

Please call or email if you have any questions etc.  
Thanks  
Sincerely





## Kadrmass, Bethany R.

---

**From:** Kadrmass, Bethany R.  
**Sent:** Friday, February 26, 2016 2:20 PM  
**To:** metalengr\_rkary@hotmail.com  
**Cc:** Hogan, Hope L.; Hicks, Bruce E.  
**Subject:** FW: Well Site Plug / Reclamation Request Doc. #4919 Site  
**Attachments:** NDIC document.docx

Mr. Kary,

NDIC Case 24708 was heard on February 24, 2016. Pursuant to NDAC § 43-02-03-90.2., written comments must be received by 5 pm on the last business day prior to the hearing. I've set your email address up to receive an auto generated email notification when an order is entered in this case.

Please let me know if you have additional questions.

Bethany Kadrmass  
North Dakota Oil and Gas Division  
P: 701-328-8020 | F: 701-328-8022  
[brkadrmass@nd.gov](mailto:brkadrmass@nd.gov) | [www.dmr.nd.gov/oilgas](http://www.dmr.nd.gov/oilgas)

---

**From:** Ron Kary [[mailto:metalengr\\_rkary@hotmail.com](mailto:metalengr_rkary@hotmail.com)]  
**Sent:** Thursday, February 25, 2016 5:18 PM  
**To:** Kadrmass, Bethany R.  
**Subject:** RE: Well Site Plug / Reclamation Request Doc. #4919 Site

NDIC  
Bismarck, ND 58505  
Attn: Bethany Kadrmass

NEED YOUR HELP!

See attached Document to be added to the review of well site by Commission.  
I talked with David and Cody on this matter.

Please call or email if you have any questions etc.  
Thanks  
Sincerely  
Ron Kary @ Metal Engineering Co.

## Kadrmass, Bethany R.

---

**From:** Ron Kary <metalengr\_rkary@hotmail.com>  
**Sent:** Thursday, February 25, 2016 5:18 PM  
**To:** Kadrmass, Bethany R.  
**Subject:** RE: Well Site Plug / Reclamation Request Doc. #4919 Site  
**Attachments:** NDIC document.docx

NDIC  
Bismarck, ND 58505  
Attn: Bethany Kadrmass

**This letter was not received in  
accordance with NDAC § 43-02-03-90.2.  
Therefore, it is not part of the  
evidentiary record of this case.**

NEED YOUR HELP!

See attached Document to be added to the review of well site by Commission.  
I talked with David and Cody on this matter.

Please call or email if you have any questions etc.  
Thanks  
Sincerely  
Ron Kary @ Metal Engineering Co.

RE: Well Site Plugged/Reclamation Request.

NDIC

Bismarck, ND 58505

To: Bethany Kadrmas

Reference to Well Site #4919 Dickinson Heath #8 Well location: SE1/422-140-96 Dickinson, ND 58601.

Ron Kary 4051 10<sup>th</sup> Ave. East Dickinson, ND 58601. I am the surface owner of above said property and requisition request for Plugging and reclaiming of well site, road, etc. as stated above.

Please add to the review document my reasons and information herewith:

After 30 years of no activity or development on site or other, request for reclamation and plugging of well has merit to be restored back to farm production and safety standards for now.

I have owned this property for more than 27 years and my future plans are to develop this area into Residential and Commercial lots since we are in the Dickinson's Master Plan and zoning target. Furthermore, I see this well site having no increase in property value or safety with this type of development planned.

In these 27 years we have planned and developed this property (140 acres) with rows of pine trees, landscaping, cropland, hayland, and my own personal house and home. We have received no compensation or act of improvement to the entrance road, well site, nothing. Henceforth, we have exhausted our money and time paying taxes, loss of production, weed and flood control, and misuse of this location.

For the record, three neighboring exploration wells within ½ mile of our land, have been drilled, evaluated plugged and reclaimed within a course of 3 months after. I am wondering why this well on our property still exists after 30 years?

Please except this testimony and statement for which I request to be added to the review document. Thank you for your great help ND Industrial Commission.

Sincerely

Ron Kary Tel. #701-227-0260 Ext. 212

2-24-'16

## DHSU & C12 Energy Overview

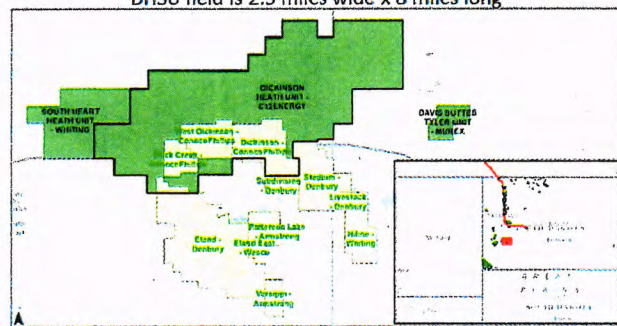
## DHSU

- Discovered in 1958
  - OOIP ~61 million barrels
  - Production started in 1965
- Wells are completed in Tyler sandstone
  - Avg depth 7900' TVD
  - Most completed on 160 acre spacing
  - 72 wells completed in Tyler at some point
    - 23 active producers
    - 6 active injectors
- Field unitized in 1973
- Operatorship transferred from Cline Production Company to C12 Energy in July 2013

## C12 Energy

- Started off as a carbon capture start up in 2008
- Transitioned to CO2 flooding company in 2013
- DHSU was first oil field purchased by C12 Energy
  - First part of plan to purchase more fields in ND
  - Desire to have first CO2 flood in ND by bringing CO2 from Dakota Gasification facility in Beulah, ND

DHSU field is 2.5 miles wide x 8 miles long



**Figure 1: Dickinson area fields. Red box in insert denotes spotlighted area.**

INDUSTRIAL COMMISSION  
STATE OF NORTH DAKOTA

DATE 2-24-16 CASE NO. 24709

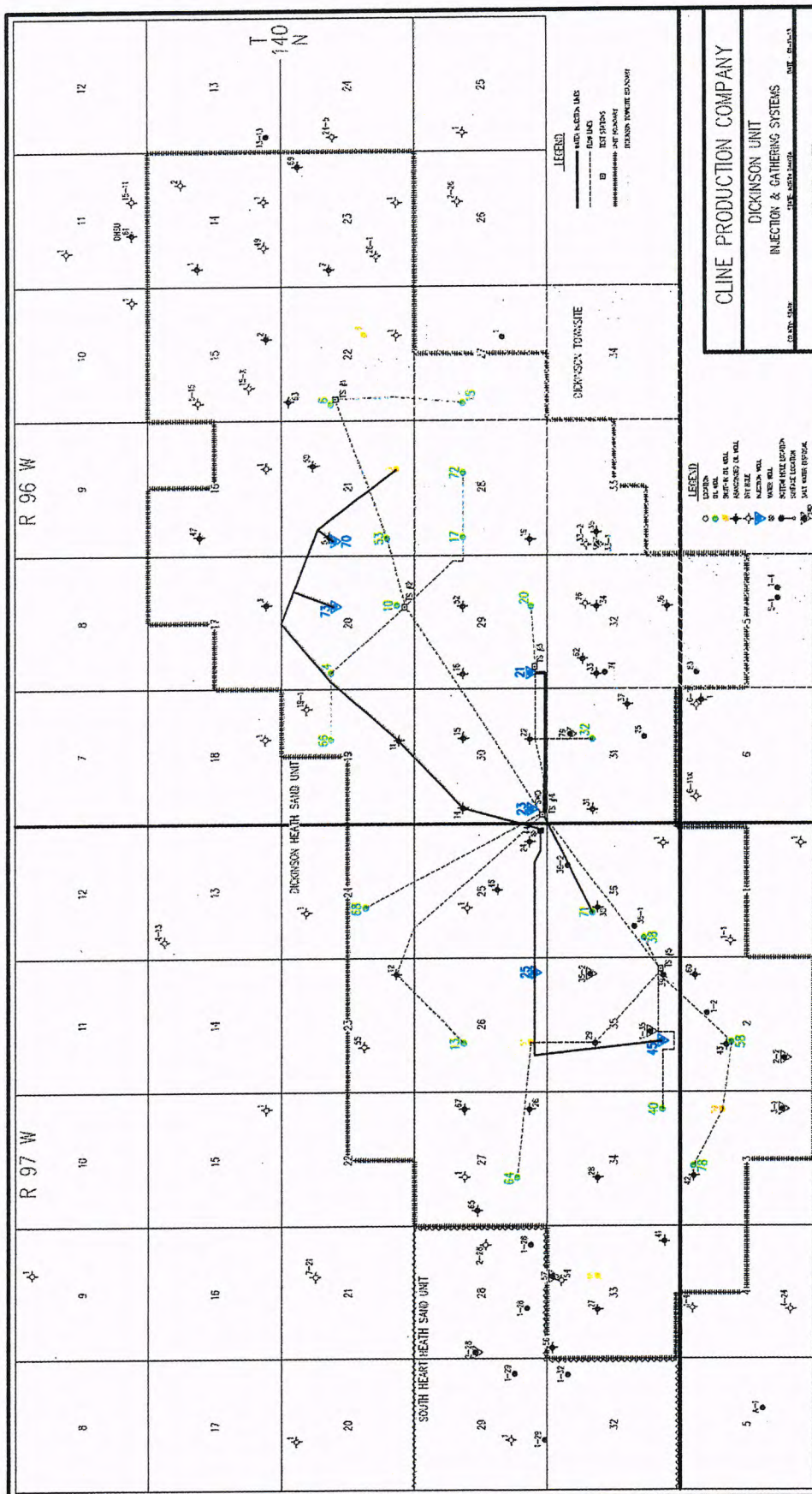
Introduced By Cl2 Energy

Exhibit 1-33

Identified By Ramsay

C12 Energy  
Case No. 24708  
February 24, 2016  
Exhibit #1





INDUSTRIAL COMMISSION  
STATE OF NORTH DAKOTA

DATE 2-24-16 CASE NO. 24708

Introduced By Clz Energy

Exhibit 2

Identified By Ramsay

C12 Energy  
Case No. 24708  
February 24, 2016  
Exhibit #2



# Scale of Overall CO<sub>2</sub>-EOR Opportunity



Producing Interval	Unit	Unit Operator	Current Production (bbls/mon)	Cummulative Production (bbls)	Estimated PSUP (bbls)	CO2-EOR Potential (%PSUP)	CO2-EOR Potential (bbls)	Rough CO2 Appetite
Tyler	Dickinson Heath	Cline	3,840	26,500,000	26,800,000	40%	10,720,000	4,288,000
	South Heart Heath	Whiting	887	793,000	796,000	40%	318,400	127,360
	Davis Buttes Tyler	Murex	488	251,000		40%	-	-
Lodgepole	Versippi Lodgepole	Armstrong	1,200	577,000	594,000	40%	237,600	95,040
	Patterson Lake Lodgepole	Armstrong	18,800	622,000		40%	-	-
	Eland East Lodgepole	Wesco		[Not in YODA]		40%	-	-
	Eland Lodgepole	Denbury	25,200	28,800,000	30,200,000	40%	12,080,000	4,832,000
	Duck Creek Lodgepole	ConocoPhillips	2,420	1,630,000	1,700,000	40%	680,000	272,000
	West Dickinson Lodgepole	ConocoPhillips	6,620	5,400,000	5,810,000	40%	2,324,000	929,600
	Dickinson Lodgepole	ConocoPhillips	4,790	7,060,000	7,620,000	40%	3,048,000	1,219,200
	Subdivision Lodgepole	Denbury	242	181,000		40%	-	-
	Statium Lodgepole	Denbury	15,700	11,900,000	13,700,000	40%	5,480,000	2,192,000
	Livestock Lodgepole	Denbury	88	223,000		40%	-	-
	Hilline Lodgepole	Whiting	2,360	1,790,000	2,020,000	40%	808,000	323,200
	Sum (All)		82,635	85,727,000	89,240,000		35,696,000	14,278,400
	Sum (Key)		56,150	79,660,000	84,130,000		33,652,000	13,460,800

- 40% PSUP recovery for CO<sub>2</sub>-EOR from Keg River (Canada) analog for Lodgepole units (% for Tyler?)
- "CO<sub>2</sub> Appetite" calculated using 2.5 bbls/ton

INDUSTRIAL COMMISSION  
STATE OF NORTH DAKOTA

DATE 2-24-16 CASE NO. 24708

Introduced By C12 Energy

Exhibit 3

Identified By Ramsay

C12 Energy  
Case No. 24708  
February 24, 2016  
Exhibit #3



## EOR POTENTIAL

### OVERVIEW

A quick-look screening of the DHSU Tyler reservoir for the potential use of chemical, carbon dioxide, or thermal enhanced recovery techniques was done using the criteria on Attachment E1. Based on this screening, it appears that miscible CO<sub>2</sub> flooding is the EOR process with the greatest potential for successful application in this reservoir. Chemical processes do not appear applicable due to the high reservoir temperature (206° F) and the high salinity formation brine (260,000+ ppm TDS). Thermal techniques are precluded due to depth (8,000 feet), pay zone thickness (6.8 feet), and remaining oil content ( $\phi \cdot S_o$ ).

Polymer injection occurred in the South Heart Heath Sand Unit which offsets the DHSU to the west. Polymer injection into two South Heart injectors began in July 1983, and according to the files no "oil in the tank" response had been seen as of a year later.

Having established miscible CO<sub>2</sub> flooding as the highest potential EOR process, the remainder of this section will discuss the technical aspects of miscible CO<sub>2</sub> as they apply to the DHSU.

### FEASIBILITY OF MISCIBLE CO<sub>2</sub> FLOODING

#### Minimum Miscibility Pressure (MMP) Data

A MMP test for the DHSU Tyler crude was performed in 1989 using a 'dead-oil' separator sample from DHSU No. 6 (TSR 133-89-202-54 included in the Appendix). A clear-cut MMP was not obtained from this test, as the classic 'breakover' typically seen on the recovery vs. pressure plot (Attachment E2) did not occur. Instead, a gradual increase in recovery was observed up to the final test pressure of 4,400 psig. Some signs of miscible behavior were observed in the slim tube sight glass at pressures of 3,900 psig and 4,400 psig. These are indicated by the solid-filled data points on Attachment E2.

The lack of a clear-cut MMP was attributed to the high 200° F temperature of the test and to the composition of the Tyler crude (see Attachment E3). It is well established that the higher the temperature of a crude oil, the higher the MMP. Thus, the high Tyler reservoir temperature tends to cause a higher MMP. The Tyler crude also lacks a high percentage of the C<sub>4</sub> to C<sub>12</sub> hydrocarbons which tend to promote the miscibility of CO<sub>2</sub> and crude oil.

Given the above results, PRD recommended that any DHSU CO<sub>2</sub> project be operated at a minimum reservoir pressure of 4,000 psig. This compares to the original reservoir pressure of roughly 3,500 psig and a fracture pressure of about 6,000 psig. Current average reservoir pressure is estimated at 3,150 psig, but this estimate is based on very limited recent pressure data. In order to prudently operate any future DHSU Tyler CO<sub>2</sub> flood, much more pressure data will be needed. As a start toward obtaining more data, recommendations to obtain pressure build-up and falloff data on 11 wells were made in March 1991.

One other note regarding the Tyler MMP is that the 1989 slim tube test used a non-recombined oil

-48-

INDUSTRIAL COMMISSION  
STATE OF NORTH DAKOTA

DATE 2-24-16 CASE NO. 24708  
Introduced By C12 Energy  
Exhibit 4  
Identified By Ramsay

C12 Energy  
Case No. 24708  
February 24, 2016  
Exhibit #4



sample. The Tyler solution gas contains more than 50 percent nitrogen, and it is well recognized in the literature that addition of nitrogen will increase MMP for a given oil. Although the solution GOR of the DHSU Tyler oil is currently only about 100 SCF/BBL, the nitrogen may have an impact on the MMP. **Therefore, it is recommended that an additional MMP run be made using a recombined oil, if it is experimentally feasible to do so** (the high pour point of the Tyler crude adds complications to all lab work). The cost to do this test should be justified when it is considered that millions of dollars will be invested if a CO<sub>2</sub> flood is actually implemented.

## CO<sub>2</sub> Core Floods

CO<sub>2</sub> core floods on core plugs from the DHSU No. 73 well are being conducted by Jerry Purkaple in Conoco's lab in Ponca City. As of this writing, three CO<sub>2</sub> core floods have been completed and preliminary results are available. A full technical service report on this work should be issued later in 1991. The reader is again cautioned to note that the following discussion is based on preliminary data.

Given the results of the MMP testing, it was decided to vary the pressures at which CO<sub>2</sub> core floods were run. Pressures of 3,500, 4,000, and 4,500 psig were selected for the three core floods. It was hoped that this would provide additional insight as to what minimum pressure is needed to obtain miscible CO<sub>2</sub> recovery. The results of these three floods were as follows:

PRESSURE	Sorw	Sorm
3500	32.6%	11.4%
4000	44.5%	10.8%
4500	17.7%	3.0%
Sorw = Waterflood residual oil saturation		
Sorm = miscible flood residual oil saturation		

The results are also shown graphically on Attachment E4. Reasonably low Sorm values were indicated at all three pressures, with a significant drop in Sorm (to 3%) at 4,500 psig. The low Sorw value of 17.7% for the 4,500 psig core flood raised some questions as to the validity of this point. A second core flood at 4,500 psig is being run to see if similar results are measured. The results will be included in the final report. Final conclusions regarding the CO<sub>2</sub> core flood results should be deferred until the second run at 4,500 psig is completed.

## Residual Oil Saturation

Waterflood residual oil saturation (Sorw) is a critical parameter for evaluating the potential of a tertiary miscible CO<sub>2</sub> flood. The only Sorw data currently available for the DHSU Tyler is from four 1990 relative permeability tests and also the values from the CO<sub>2</sub> core floods. These values are as follows:

1990 Rel Perm Sorw Values - 39.7%, 40.1%, 39.1%, 42.7%  
1990 CO<sub>2</sub> Core Flood Sorw Values - 32.6%, 44.5%, 17.7%

All of these Sorw values are lab-derived. It is recommended that an attempt be made to measure Sorw using a TDT log in a watered-out producing well. This would provide a downhole reservoir estimate of Sorw to compare to the lab-derived numbers. This work could also be combined with a log-inject-log test with CO<sub>2</sub> injection to determine Sorm. Such a single-well pilot was performed in the Sussex field in 1989.

#### Future Evaluation

The initial review has indicated that miscible CO<sub>2</sub> flooding should be technically feasible in the DHSU Tyler reservoir. However, additional work is needed to better determine the optimum operating pressure for a miscible CO<sub>2</sub> flood. This includes measuring the MMP on a recombined oil sample and further evaluation of CO<sub>2</sub> core flood results after they are completed. Reservoir measurement of residual oil saturation is also needed to verify lab-derived estimates.

Economics for a miscible CO<sub>2</sub> flood will be evaluated after flowstreams are developed. Current plans are to use a reservoir model to develop these flowstreams.



## Reservoir Properties Overview

March 10<sup>th</sup>, 2013

Alan P. Byrnes

Chief Petrophysicist

INDUSTRIAL COMMISSION

STATE OF NORTH DAKOTA

DATE 2-24-16 CASE NO. 24708

Introduced By C12 Energy

Exhibit 5

Identified By Ramsay

## 1 Dickinson Heath Sandstone Unit Reservoir Overview

**EOR Potential Overview:** The Dickinson Heath Sandstone Unit (DHSU) was assessed in 1991 by operator CONOCO as favorable for CO<sub>2</sub> EOR potential based on reservoir properties. DHSU exhibits all the key reservoir properties criteria favorable for a CO<sub>2</sub> EOR flood including:

- Good net pay thickness, porosity and permeability; B1 [ $H_{\text{netpay}}=0-16'(8'_{\text{avg}})$ ,  $\phi_{\text{pay}}=7-21\%$  ( $14\%_{\text{avg}}$ ),  $K_{\text{pay}}=0.1-350$  mD ( $158$  mD<sub>avg</sub>)] and A2 [ $H_{\text{netpay}}=0-16'(8'_{\text{avg}})$ ,  $\phi_{\text{pay}}=7-21\%$  ( $14\%_{\text{avg}}$ ),  $K_{\text{pay}}=0.1-350$  mD ( $158$  mD<sub>avg</sub>)].
- Good upper and lower seals (evidenced by minimal primary water production and high correlation of secondary injector-producer balance).
- Relatively thin, vertically-isolated sands minimize gravity override and allow interval-specific process rates.
- Good present residual oil saturation in field and measured on core ( $S_{\text{orw,avg}} = 37\%$ ).
- High miscible recovery and good low residual miscible flood oil saturation measured on core ( $S_{\text{orm}} = 8\%$ ).
- Good inter-well connectivity and sweep efficiency confirmed by high primary and secondary recovery efficiency (44%).
- Good oil properties – 34° API, 3 centipoise viscosity.
- High CO<sub>2</sub> partially-miscible to miscible recovery efficiency (60%-90%) over pressure range 3,000-4,700 psi – below maximum injection pressure of  $P_{\text{frac}} \sim 6,000$  psi.
- Sufficient, high-quality wireline log and core data and production history data to construct static and dynamic geomodel to help design optimum flood, field development and operations management program.

### EOR Process Challenges/Risks-Mitigation:

- Different process rates among sand intervals and locations within the field will result in variable CO<sub>2</sub> breakthrough, process rates, CO<sub>2</sub> injection/production rates, and times of process completion. These issues can be mitigated with change over time of injection-production patterns, utilization of WAG (water-alternating-gas) and squeezing off fully processed intervals. The relative vertical isolation of the four sand intervals is favorable to optimum management of conformance and sweep.
- Partially-miscible to miscible recovery efficiencies are most favorable at pressures greater than 3,000 psi. This pressure favors operating the flood at pressures greater than the present field pressure of 3,150 psi and generally operating injectors at bottom-hole pressures near fracture pressures. This will require pressuring up the field prior to flood initiation, which can be done during pipeline and surface facilities construction. This may also warrant change in producer BHFP over time to higher pressures to increase the region of higher recovery efficiency.
- CO<sub>2</sub> core and slim-tube miscibility testing was performed using dead oil samples. Live oil will have both more light-end hydrocarbons, which should favorably decrease minimum miscibility pressure (MMP), but also nitrogen, which may increase MMP.
- Though oil properties are favorable to CO<sub>2</sub> EOR, as evidenced by slim-tube and core flood tests, low cloud-point temperature for the waterflood-recovered oil requires



appropriate surface pipeline facilities conditions management. The influence of CO<sub>2</sub> and CO<sub>2</sub>-extracted oil on surface facilities will have to be evaluated.

### Key Reservoir Properties:

**Field:** Dickinson Heath Sandstone Unit (DHSU)

**Field Dimensions:** ~2.5 mi (N-S) x 8 mi (E-W); 16,308 acres

**Producing Formation:** Pennsylvanian-age Tyler Fm., producing principally from two sand intervals (A2 and B1) with contribution from over- and underlying sands (A1 and B2). Sands are generally separated by thin shales.

**Depositional Environment:** Principal reservoir comprises NE-SW trending shallow marine barrier bar shoal complex with influence from three distributary channel systems to SE and inter-distributary deposits, grading into offshore marine shales to NW. Bounded above by Amsden Fm. carbonate and below by Otter Fm. interbedded carbonate and shale.

**Structure:** No significant structure, homoclinal 0.5° dip to NW (-5400' to -5275'SS), several minor low spots, OWC ~ -5405'SS.

**Lithology:** fine to medium-grained calcareous quartz sandstone.

**Discovery date:** 1958.

**Estimated OOIP:** 61.8 MMSTBO.

**Primary Recovery:** 9.8 MMSTB (15.9% OOIP), solution-gas drive, peaked 1967.

**Secondary Recovery:** 17 MMSTB (27.6% OOIP), peaked 1977.

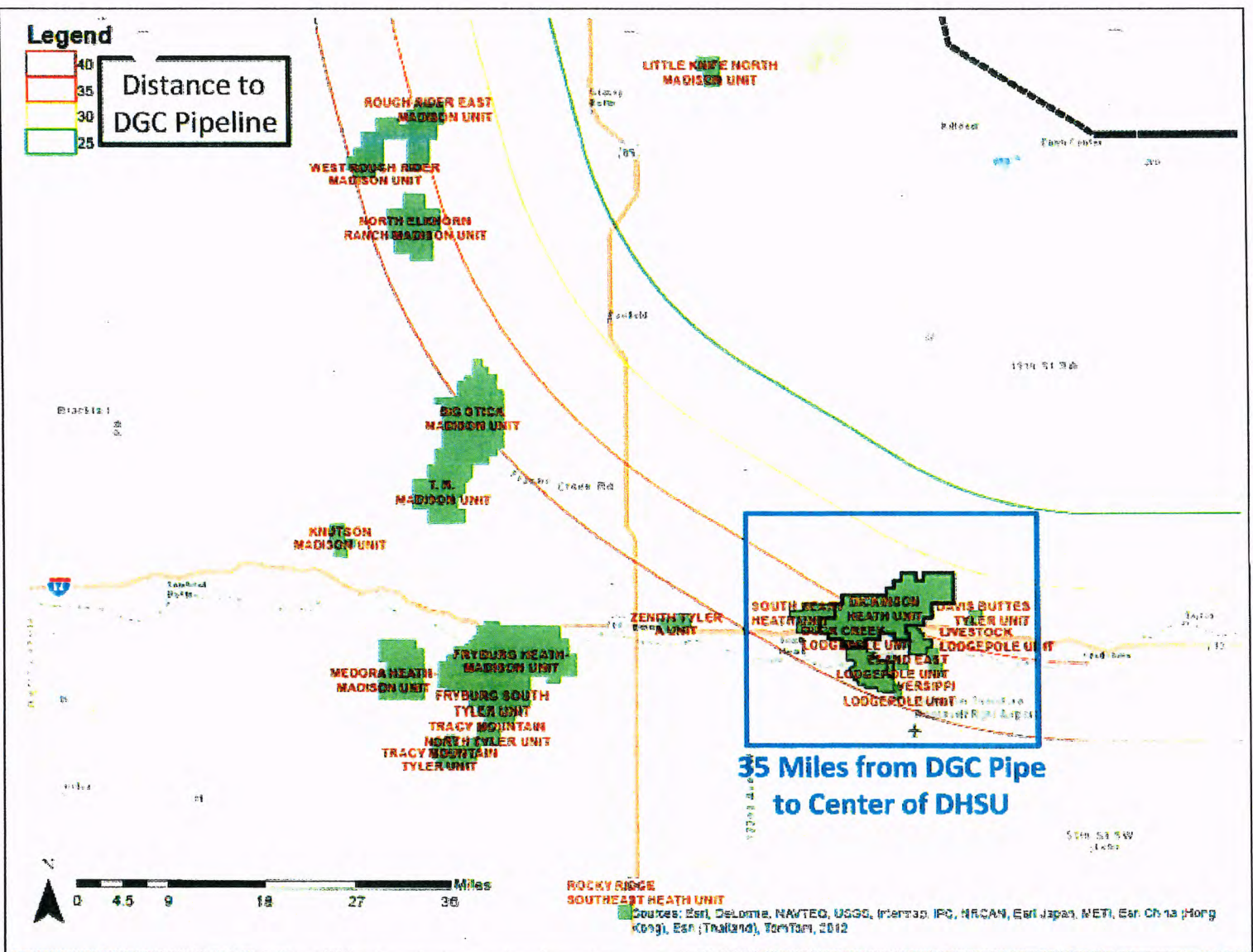
**Reservoir Properties:** Depth - 7,900 ft (-5,350' SubSea), Present pore pressure - 3,150 psi, Temperature - 206 °F, Fracture pressure - 6,000 psi.

**Fluid Properties:** Oil gravity - 34° API, Oil viscosity - 3 cP, GOR - 100 SCF/bbl high N<sub>2</sub> component, Oil composition - light in C<sub>2</sub>-C<sub>6</sub> components.

**Flood Performance:** Variable initial oil saturation of  $S_{oi}=35-85\%$  (increases with porosity), Core waterflood tests exhibit residual oil saturation to waterflood of  $S_{orw}=37\%$  (average,  $n=7$ ), Core CO<sub>2</sub> flood tests exhibit residual oil to CO<sub>2</sub> of  $S_{orm}=8\%$  (average,  $n=3$ ). Miscibility testing exhibits CO<sub>2</sub> % PV Recovery - Pressure (for dead oil); 60% - 3,000 psi, 70% - 3,500 psi, 80% - 4,000 psi, 90% - ~4,700 psi, Brine salinity - 260,000 ppm TDS.

### Reservoir Properties:

Property; range (avg)	A1	A2	B1	B2
Net Pay Thickness, ft	0-3' (0.1')	0-15' (2.0')	0-16' (8.0')	0-12' (0.5')
Core Porosity, %	0.5-19.2 (10.6%)	1.1-21.5 (13.4%)	0.5-20.7 (14.0%)	0.8-19.6 (14.9%)
Core Permeability, mD	0.01-642 (56 mD)	0.01-1764 (204 mD)	0.01-3150 (158 mD)	0.01-545 (294 mD)



## INDUSTRIAL COMMISSION STATE OF NORTH DAKOTA

DATE 2-24-16 CASE NO. 24708

Introduced By C12 Energy

Exhibit 6

Identified By Ramsay

C12 Energy

Case No. 24708

February 24, 2016

Exhibit #6



## Well Integrity Report - Form 19 Summary

INDUSTRIAL COMMISSION OF NORTH DAKOTA  
OIL AND GAS DIVISION  
600 EAST BOULEVARD DEPT 405  
BISMARCK, ND 58505-0840

Well File No. **4919**

UIC No. **A0014E0164**

Test Date: **6/11/2015 11:08:45 AM** Contractor Performing Pressure Test: **MBI Energy Services**  
Operator: **C12 ENERGY: NORTH DAKOTA LLC** Telephone: **4062549496**  
Address: **1900 WAZEE ST** City: **DENVER** State: **CO** Zip Code: **80202**  
Well Name: **DICKINSON-HEATH-SAND UNIT 08** Field: **DICKINSON**  
Location: Qtr-Qtr: **NWSE** Section: **22** Township: **140** Range: **96** Cnty: **STARK**

### WELL TEST DATA

Formation:	<b>HEATH</b>		Perforations:	<b>7878-7886 Feet</b>	
Tool Type:	<b>CICR</b>	Depth:	<b>7776 Feet</b>		Packer Model:
Tubing Size:	<b>Inches</b>		Tubing Type:	<b>UNKNOWN</b>	
Well Type:	<b>Enhanced Recovery Well</b>	Reason for Test:	<b>TA</b>		Test Type: <b>5 Year MIT</b>

	BEFORE TEST	START of TEST	END of TEST
Tubing Pressure:	<b>PSIG</b> Shut In	<b>PSIG</b> Shut In	<b>PSIG</b> Shut In
Annulus or Casing Pressure:	<b>PSIG</b>	<b>1000 PSIG</b>	<b>940 PSIG</b>

Annulus or Casing Fluid: **Treated Salt Water** Test Fluid: **Treated Salt Water**

Amount of Fluid Needed to Fill Annulus or Casing: **3.18 Bbls**

Test Length: **15 Minutes** Was Annulus or Casing Bled to Zero After Test?: **Yes** If No - Pressure Left:

### INSPECTION COMMENTS

Test Result:	<b>Acceptable</b>	Report of Work Done Required:	<b>No</b>
MIT approved. Took 3 bbl to fill annulus, pressured up to 1000 psi and lost 60 pounds in 15 min.			

This Report is true and complete to the best of my knowledge.

Company Representative Witnessing Test:

**Jared Kessel**

Title: **Operator**

Commission Field Inspector Witnessing Test:

**Traci Wangen**

NDIC Initials

**[Signature]**

INDUSTRIAL COMMISSION  
STATE OF NORTH DAKOTA

DATE **2-24-16** CASE NO. **24708**  
Introduced By **C12 Energy**  
Exhibit **7**  
Identified By **Ramsay**

C12 Energy  
Case No. 24708  
February 24, 2016  
Exhibit #7

DICKINSON CORE AND LOG ANALYSIS WELL DATA SHEET

Zone Tops, Subsea Depths, and Core/Log Analysis Calculations

WELL NO.: DHSU 8 TD: 7958' ELEV.: KB: 2549' GL: 2536'

ORIGINAL WELL NAME: PRIBYL-HEWSON 2

LOCATION: SECTION 22, TOWNSHIP 140N, RANGE 96W NW/SE  
STARK COUNTY, NORTH DAKOTA

INDUSTRIAL COMMISSION  
STATE OF NORTH DAKOTA

ZONE NAME	GEOLOGICAL MEASURED DEPTH INTERVAL		TVD. SUBSEA		NET PAY/ POROSITY SOURCE CORE/LOG (C/L)	GROSS FT.	NET FT.	N:G	AVG. POR.	POR. FT.	ARITHMETIC AVG. AIR PERM. (md)	KH (md*ft)
	TOP	BASE	TOP	BASE								
TYLER	7837		5287									
A1	7861	7871	5311		C	10	0.0	0.00	0.000	0.00	0.0	0.0
A2	7874	7880	5324		C	6	0.0	0.00	0.000	0.00	0.0	0.0
B1	7882	7890	5332		C	8	2.0	0.25	0.146	0.29	140.0	280.0
B2	NP											
TOTAL							2.0		0.146	0.29	140.0	280.0

NOTE: NET PAY AND AVERAGE POROSITY/PERMEABILITY NUMBERS WERE CALCULATED  
USING THE FOLLOWING CUTOFF CRITERIA: POROSITY  $\geq 7\%$  AND  
AIR PERMEABILITY  $\geq 0.1$  md AND  
CORE OIL SAT  $> 0\%$

HOLE DIRECTIONAL DATA AVAILABLE: ☒ YES ☐ NO

NP = ZONE NOT PRESENT

DATE 2-24-16 CASE NO. 24708  
Introduced By C12 Energy  
Exhibit 8  
Identified By Ramsay

C12 Energy  
Case No. 24708  
February 24, 2016  
Exhibit #8



## DST WELL DATA SHEET

WELL NO.: DHSU 8

LISTING OF DST'S:

DATE      DEPTHS

6-20-70      7834-7960

6-21-70      7866-7960

WAS ANY DST ANALYZED?      XX yes           no

RESULTS IF ANALYZED:

DATE	DEPTH	P* FROM INITIAL BUILDUP (psig)	P* FROM FINAL BUILDUP (psig)	KH (md*ft)	SKIN
6-20-70	7834-7960	3518	3449	184	9.92

KH and Skin from Analysis of Final Buildup  
See Appendix of Report for Analysis Plots

INDUSTRIAL COMMISSION  
STATE OF NORTH DAKOTA

DATE 2-24-16 CASE NO. 24708

Introduced By C12 Energy

Exhibit 9

Identified By Ramsay

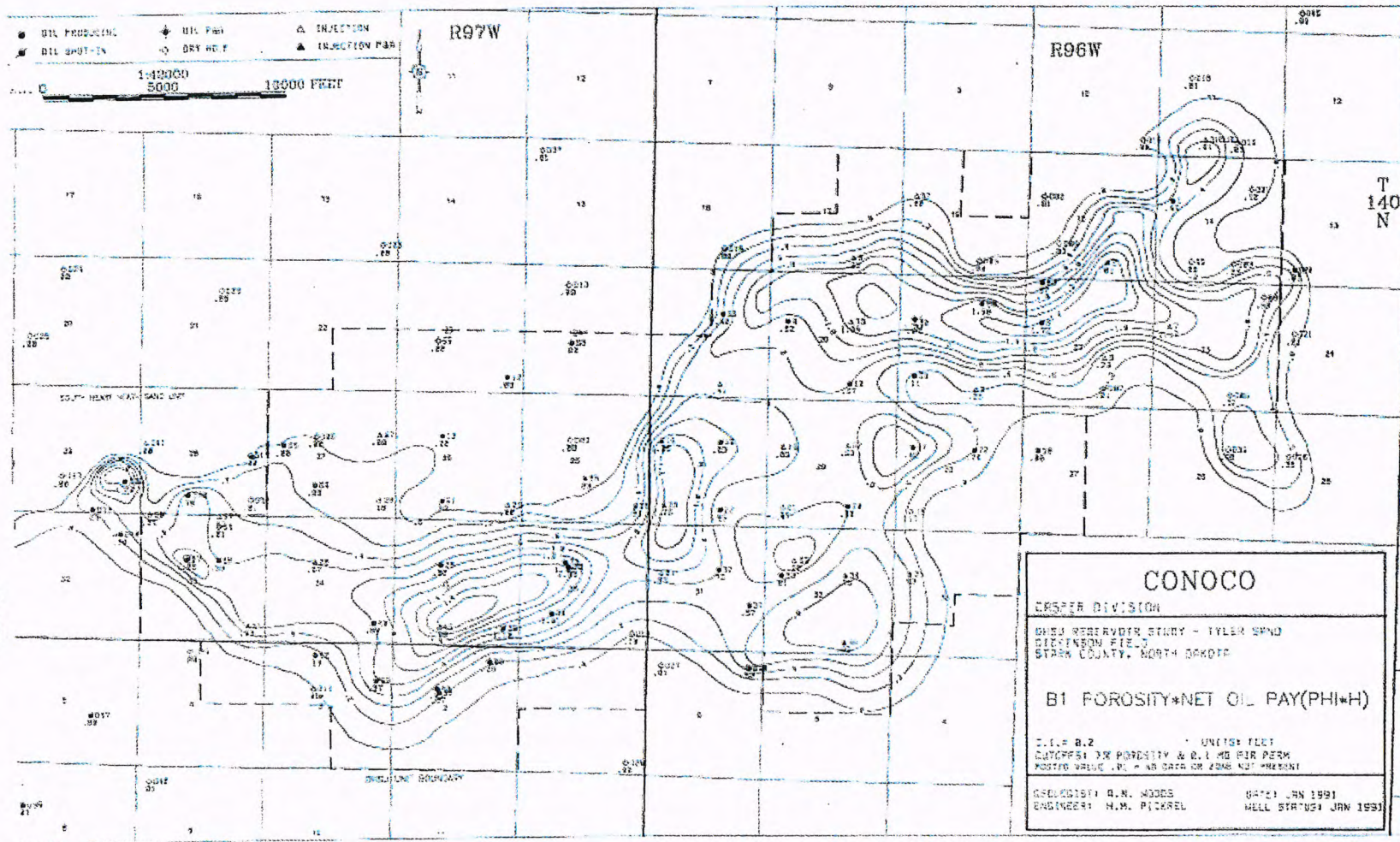
C12 Energy  
Case No. 24708  
February 24, 2016  
Exhibit #9



GR	PERFS	DEPTH	POROSITY	SATURATION	AIR PERM
TYLER		7857.00F	7881.00F		
A1		7881.00F	7874.00F		
A2		7874.00F	7882.00F		
RY		7882.00F	7881.00F		
BASE		7881.00F	7840.00F		
		7880			
GR, Z. 1	PERF, Z. 1	CPOR, Z. 1	SWE, A. 1	CKHA, Z. 1	
0.00	0.00	25.00	0.00	0.00	0.01
100.00	5.00		1.00	1000.00	
		PORT, A. 1	CSW, Z. 1		
		0.25	0.00	100.00	0.00
				0.00	
			DSO, Z. 1		
			0.00	100.00	

C12 Energy  
Case No. 24708  
February 24, 2016  
Exhibit #10





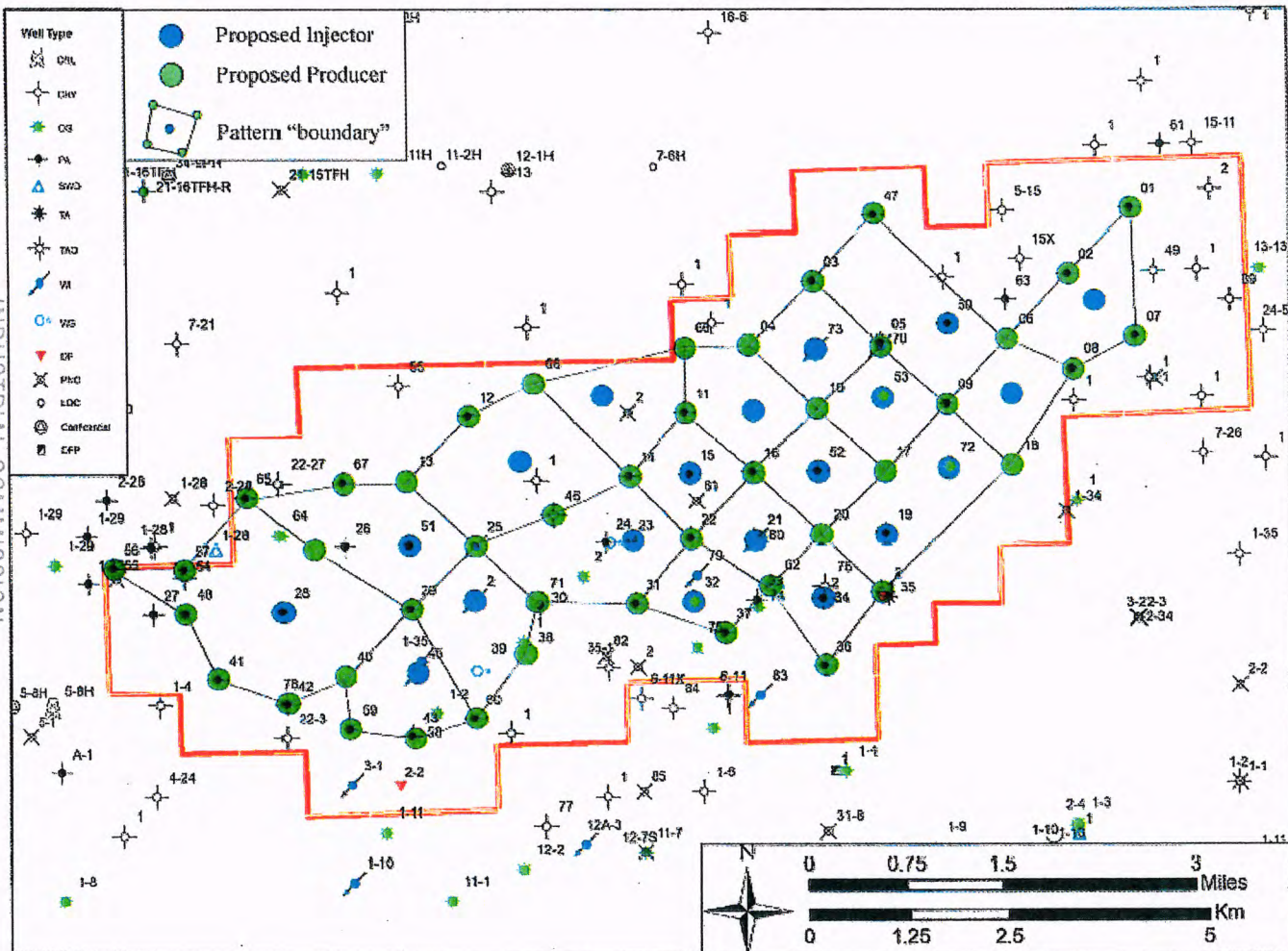
ATTACHMENT B22

INDUSTRIAL COMMISSION  
STATE OF NORTH DAKOTA  
DATE 22410 CASE NO. 24708  
Introduced By C12 Energy  
Exhibit 11  
Identified By Ramsay

C12 Energy  
Case No. 24708  
February 24, 2016  
Exhibit #11



### EOR Development Plan



INDUSTRIAL COMMISSION

STATE OF NORTH DAKOTA

WTE 2-21-16 CASE NO. 24708

Produced By C<sup>12</sup> Energy

Exhibit 12

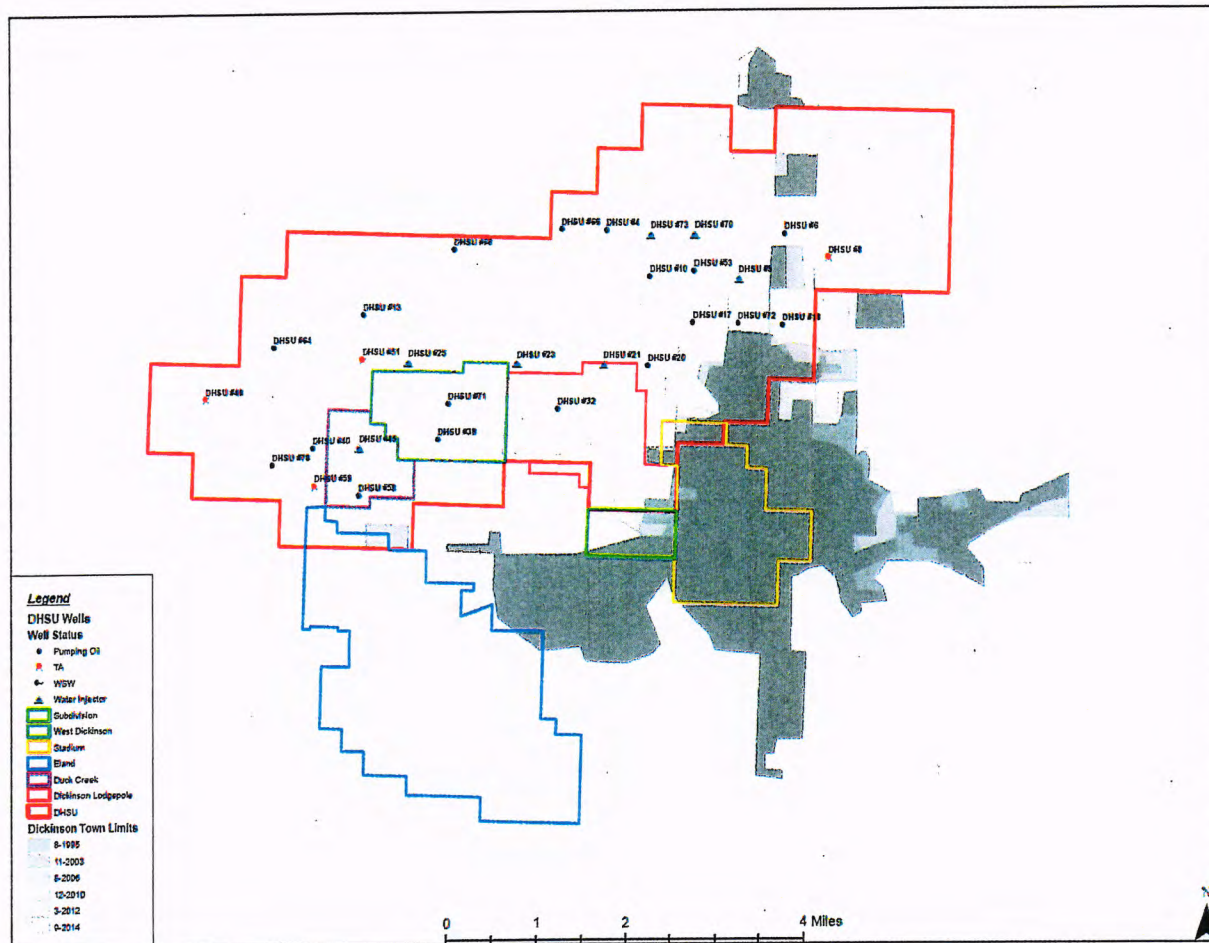
Identified By Ramsay

C<sup>12</sup> Energy

Case No. 24708

February 24, 2016

Exhibit #12



INDUSTRIAL COMMISSION  
STATE OF NORTH DAKOTA  
FILE 224-16 CASE NO. 24708  
Produced By C12 Energy  
Exhibit 13  
Identified By Ramsay

C12 Energy  
Case No. 24708  
February 24, 2016  
Exhibit #13



**From:** Heilman, Tracy A.  
**To:** [McCusker, David J.](#)  
**Cc:** [gavin.ramsay@C12energy.com](mailto:gavin.ramsay@C12energy.com)  
**Subject:** RE: Case 24708 - Continued to February 24, 2016  
**Date:** Friday, January 15, 2016 3:21:00 PM

---

Case 24708 will be docketed on Wednesday, February 24, 2016

Tracy Heilman  
ND Oil & Gas Division  
600 E Boulevard Dept 405  
Bismarck ND 58505  
701-328-8020  
[theilman@nd.gov](mailto:theilman@nd.gov)  
<https://www.dmr.nd.gov/oilgas>

---

**From:** McCusker, David J.  
**Sent:** Tuesday, December 29, 2015 2:43 PM  
**To:** Heilman, Tracy A.  
**Cc:** [gavin.ramsay@C12energy.com](mailto:gavin.ramsay@C12energy.com)  
**Subject:** Case 24708 - Continued to February 2016

Tracy,

Case 24708 was on the December 17, 2015 docket. It was on the motion of the Commission to review the TA status of the Dickinson-Heath-Sand Unit #08 (4919) well. You notified Tyson Taylor via email on November 20, 2015 of the pending case. Nobody made an appearance at the hearing. On December 23, 2015, I contacted Gavin Ramsay with C12 Energy: North Dakota LLC, the operator of the well and he indicated Tyson is no longer with C12 and hasn't been since September 2015. Gavin didn't know if anybody was reading Tyson's emails or if anyone was aware of Case 24708.

Please place Case 24708 as a continued case on the February 2016 docket. Once the case has been docketed, please inform Gavin Ramsay of the docket date. Thanks.

Gavin,  
Please reply so I know you received this email. Thanks.

***Dave McCusker***  
State of North Dakota  
North Dakota Industrial Commission  
Department of Mineral Resources  
Oil & Gas Division  
Street Address: 1016 East Calgary Avenue  
Mailing Address: 600 East Boulevard  
Bismarck, ND 58505  
Office: (701) 328-8046  
Fax: (701) 328-8022  
<https://www.dmr.nd.gov/oilgas/>

**From:** McCusker, David J.  
**To:** Heilman, Tracy A.  
**Subject:** FW: Case 24708 - Continued to February 2016  
**Date:** Monday, January 04, 2016 8:57:23 AM

---

FYI

***Dave McCusker***

State of North Dakota  
North Dakota Industrial Commission  
Department of Mineral Resources  
Oil & Gas Division  
Street Address: 1016 East Calgary Avenue  
Mailing Address: 600 East Boulevard  
Bismarck, ND 58505  
Office: (701) 328-8046  
Fax: (701) 328-8022  
<https://www.dmr.nd.gov/oilgas/>

---

**From:** Gavin Ramsay [mailto:gavin.ramsay@c12energy.com]  
**Sent:** Monday, January 04, 2016 8:56 AM  
**To:** McCusker, David J.  
**Subject:** RE: Case 24708 - Continued to February 2016

Hi Dave,

I have received your notice. Thanks for getting in touch and allowing us to make this hearing.

-Gavin

Gavin Ramsay P.E.  
Production Engineer | C12 Energy  
E-mail: [gavin.ramsay@c12energy.com](mailto:gavin.ramsay@c12energy.com)  
Office: 303.848.3820 | Mobile: 907.351.8808  
1900 Wazee Street, Suite 200, Denver, CO 80202

---

**From:** McCusker, David J. [mailto:dmccusker@nd.gov]  
**Sent:** Tuesday, December 29, 2015 1:43 PM  
**To:** Heilman, Tracy A.  
**Cc:** Gavin Ramsay  
**Subject:** Case 24708 - Continued to February 2016

Tracy,  
Case 24708 was on the December 17, 2015 docket. It was on the motion of the Commission to review the TA status of the Dickinson-Heath-Sand Unit #08 (4919) well. You notified Tyson Taylor via email on November 20, 2015 of the pending case. Nobody made an appearance at the hearing. On December 23, 2015, I contacted Gavin Ramsay with C12 Energy: North Dakota LLC, the operator of the well and he indicated Tyson is no longer with C12 and hasn't been since September 2015.

Gavin didn't know if anybody was reading Tyson's emails or if anyone was aware of Case 24708.

Please place Case 24708 as a continued case on the February 2016 docket. Once the case has been docketed, please inform Gavin Ramsay of the docket date. Thanks.

Gavin,

Please reply so I know you received this email. Thanks.

***Dave McCusker***

State of North Dakota

North Dakota Industrial Commission

Department of Mineral Resources

Oil & Gas Division

Street Address: 1016 East Calgary Avenue

Mailing Address: 600 East Boulevard

Bismarck, ND 58505

Office: (701) 328-8046

Fax: (701) 328-8022

<https://www.dmr.nd.gov/oilgas/>



**From:** Heilman, Tracy A.  
**To:** "metalengr rkary@hotmail.com"  
**Subject:** NDIC Case 24708  
**Date:** Friday, November 20, 2015 1:34:00 PM  
**Attachments:** [docket121715.pdf](#)

---

Please be advised Case 24708 is docketed for the December 17, 2015 hearings. Docket attached.

Tracy Heilman  
ND Oil & Gas Division  
600 E Boulevard Dept 405  
Bismarck ND 58505  
701-328-8020  
[theilman@nd.gov](mailto:theilman@nd.gov)  
<https://www.dmr.nd.gov/oilgas>

Begin forwarded message:

**From:** Ron Kary <[metalengr\\_rkary@hotmail.com](mailto:metalengr_rkary@hotmail.com)>  
**Date:** November 8, 2015 at 4:44:29 PM CST  
**To:** "[cwvanderbusch@nd.gov](mailto:cwvanderbusch@nd.gov)" <[cwvanderbusch@nd.gov](mailto:cwvanderbusch@nd.gov)>  
**Subject:** Well Site Plugged/Reclamation

11-09-'15  
ND Oil & Gas Division  
Bismarck, ND 58505  
Mr Cody Vanderbusch

Request Oil Well Site Plugged and reclaimed.  
Location: SE1/422-140-96 Dickinson, ND 58601

Per our conversation earlier, Ron Kary owner of above said land I hereby request Oil Well site #4919 Dickinson Heath #8 Well and Site be properly plugged and reclaimed to standard of the ND State Oil and Gas Division.  
After 30 years of no activity this request as merit to be reclaimed and restored back to farm production and safety standards.

Please accept this request and let me know on status hereafter.  
Call if any questions or other anytime.  
Call back Contact Tel. #701-227-0260 24hr Fax #701-227-1974  
Email: [metalengr\\_rkary@Hotmail.com](mailto:metalengr_rkary@Hotmail.com)

Thank you  
Sincerely  
Ron Kary with Mail address: 4051 10th Ave. East



Dickinson, ND 58601

11-09-2015

Case 24708

**Heilman, Tracy A.**

---

**From:** McCusker, David J.  
**Sent:** Monday, November 09, 2015 8:06 AM  
**To:** Heilman, Tracy A.  
**Subject:** FW: Well Site Plugged/Reclamation

Tracy,  
Could you place the Dickinson-Heath-Sand-Unit #08 (4919) well on the next available docket to review the TA status? Thanks.

***Dave McCusker***

State of North Dakota  
North Dakota Industrial Commission  
Department of Mineral Resources  
Oil & Gas Division  
Street Address: 1016 East Calgary Avenue  
Mailing Address: 600 East Boulevard  
Bismarck, ND 58505  
Office: (701) 328-8046  
Fax: (701) 328-8022  
<https://www.dmr.nd.gov/oilgas/>

---

**From:** Vanderbusch, Cody W.  
**Sent:** Sunday, November 08, 2015 8:58 PM  
**To:** McCusker, David J.  
**Subject:** Fwd: Well Site Plugged/Reclamation

Cody  
Sent from my iPhone

Begin forwarded message:

**From:** Ron Kary <[metalengr\\_rkary@hotmail.com](mailto:metalengr_rkary@hotmail.com)>  
**Date:** November 8, 2015 at 4:44:29 PM CST  
**To:** "[cwvanderbusch@nd.gov](mailto:cwvanderbusch@nd.gov)" <[cwvanderbusch@nd.gov](mailto:cwvanderbusch@nd.gov)>  
**Subject:** Well Site Plugged/Reclamation

11-09-'15  
ND Oil & Gas Division  
Bismarck, ND 58505  
Mr Cody Vanderbusch

Request Oil Well Site Plugged and reclaimed.  
Location: SE1/422-140-96 Dickinson, ND 58601

Per our conversation earlier, Ron Kary owner of above said land I hereby request Oil Well site #4919 Dickinson Heath #8 Well and Site be properly plugged and reclaimed to

standard of the ND

State Oil and Gas Division.

After 30 years of no activity this request as merit to be reclaimed and restored back to farm production and safety standards.

Please accept this request and let me know on status hereafter.

Call if any questions or other anytime.

Call back Contact Tel. #701-227-0260 24hr Fax #701-227-1974

Email: [metalengr\\_rkary@Hotmail.com](mailto:metalengr_rkary@Hotmail.com)

Thank you

Sincerely

Ron Kary with Mail address: 4051 10th Ave. East  
Dickinson, ND 58601

11-09-2015

The Bismarck  
**Tribune**  
www.bismarcktribune.com

The  
**Finder**  
BISMARCK, MINNAPOLIS, DICKINSON & SIOUX FALLS

**Classified  
Advertising  
Invoice**

Bismarck Tribune

PO BOX 4001  
LaCrosse, WI 54602-4001

888-418-6474

Received  
FEB 16 2016  
ND Oil

OIL & GAS DIVISION

600 E BLVD AVE #405  
BISMARCK ND 58505

Customer: 60010203  
Phone: (701) 328-8020  
Date: 02/01/2016

**CREDIT CARD PAYMENT (circle one)**



Card #:  
Exp Date:  
Signature:  
Credit card users: Fax to 608-791-8212

Cash Amt

PLEASE DETACH AND RETURN TOP PORTION WITH YOUR PAYMENT

Lee Enterprises no longer accepts credit card payments sent via e-mail. Emails containing credit card numbers will be blocked. Please use the coupon above to send a credit card payment to remittance address located in the upper right corner. You may also send the coupon to a secure fax at 608-791-8212.

Date	Date	Times Run	Description	Lines	Class Code	Order Amt	Net Amt Due
02/01/16	02/01/16	1	Case No 24822 Bismarck Tribune	491.00	Legals	407.53	407.53

Attest of Publication  
State of North Dakota ) SS. County of Burleigh  
Before me, a Notary Public for the State of North Dakota  
personally appeared OL, who being duly sworn, deposes  
and says that certain the Clerk of Bismarck Tribune Co.,  
and that said publication was made through the  
Bismarck Tribune on the following dates:  
2/1 and February 16, 2016  
Morgan Doll  
Notary Public in and for the State of North Dakota

**MORGAN DOLL**  
Notary Public  
State of North Dakota  
My Commission Expires Jan. 26, 2017

Please return invoice or put order number on check. Thank You.

Remarks Total Due: 407.53

Bismarck Tribune  
www.bismarcktribune.com  
PO BOX 4001  
LaCrosse, WI 54602-4001

Terms: PAYMENT IS DUE UPON RECEIPT OF INVOICE



**NOTICE OF HEARING  
N.D. INDUSTRIAL COMMISSION  
OIL AND GAS DIVISION**

The North Dakota Industrial Commission will hold a public hearing at 9:00 a.m. Wednesday, February 24, 2016, at the N.D. Oil & Gas Division, 1000 East Calgary Ave., Bismarck, N.D. At the hearing the

Commission will receive testimony and exhibits. Persons with any interest in the cases listed below, take notice.

**PERSONS WITH DISABILITIES:** If at the hearing you need special facilities or assistance, contact the Oil and Gas Division at 701-328-8038 by Thursday, February 11, 2016.

**STATE OF NORTH DAKOTA TO:**

Case No. 24822: A motion of the Commission to consider revising the bond amount for the Wabek Madison Unit, Mountrail and Ward Counties, ND, prior to the transfer of said Unit to a new operator, pursuant to NDAC § 43-02-03-15.

Case No. 24823: A motion of the Commission to consider revising the bond amount for the Plaza Madison Unit, Mountrail County, ND, prior to the transfer of said Unit to a new operator, pursuant to NDAC § 43-02-03-15.

Case No. 24824: Proper spacing for the development of the Fancy Buttes-Bakken Pool, McKenzie County, ND, redefine the field limits, and enact such special field rules as may be necessary. Burlington Resources Oil & Gas Co. LP; Continental Resources, Inc.

Case No. 24369: (Continued) Proper spacing for the development of the Beaver Creek-Bakken Pool, Billings and Golden Valley Counties, ND, redefine the field limits, and enact such special field rules as may be necessary. Continental Resources, Inc.; Whiting Oil and Gas Corp.

Case No. 24734: (Continued) Proper spacing for the development of the Estes-Bakken Pool, McKenzie County, ND, redefine the field limits, and enact such special field rules as may be necessary. Whiting Oil and Gas Corp.

Case No. 24735: (Continued) Proper spacing for the development of the Harding-Bakken Pool, McKenzie County, ND, redefine the field limits, and enact such special field rules as may be necessary. Oasis Petroleum North America LLC; Whiting Oil and Gas Corp.

Case No. 24736: (Continued) Proper spacing for the development of the Hay Creek-Bakken Pool, McKenzie County, ND, redefine the field limits, and enact such special field rules as may be necessary. Whiting Oil and Gas Corp.

Case No. 24737: (Continued) Proper spacing for the development of the Nelson Bridge-Bakken Pool, McKenzie County, ND, redefine the field limits, and enact such special field rules as may be necessary. Whiting Oil and Gas Corp.

Case No. 24503: (Continued) Proper spacing for the development of the Henry-Red River Pool, Golden Valley County, ND, redefine the field limits, and enact such special field rules as may be necessary. Whiting Oil and Gas Corp.

Case No. 24825: Application of Whiting Oil and Gas Corp. for an order amending the applicable orders for the Twin Buttes-Bakken Pool to establish a 2560-acre drilling or spacing unit consisting of Sections 8, 17, 20 and 29, T.147N., R.91W., Dunn County, ND, and allow one or more horizontal wells to be drilled thereon, or granting such other relief as may be appropriate.

Case No. 24826: Application of Whiting Oil and Gas Corp. for an order amending the applicable orders for the Twin Buttes-Bakken Pool to establish a 5120-acre drilling or spacing unit consisting of Sections 9, 10, 15, 16, 21, 22, 27 and 28, T.147N., R.91W., Dunn County, ND, and allow one or more horizontal wells to be drilled thereon, or granting such other relief as may be appropriate.

Case No. 24827: Application of Whiting Oil and Gas Corp. for an order extending the boundaries and amending the applicable orders for the Twin Buttes-Bakken Pool to establish a 1280-acre drilling or spacing unit consisting of Sections 11 and 14, T.147N., R.91W., Dunn County, ND, and allow one or more horizontal wells to be drilled thereon, or granting such other relief as may be appropriate.

Case No. 24828: Application of Whiting Oil and Gas Corp. for an order extending the boundaries and amending the applicable orders for the Twin Buttes-Bakken Pool to establish a 1280-acre drilling or spacing unit consisting of Sections 23 and 26, T.147N., R.91W., Dunn County, ND, and allow one or more horizontal wells to be drilled thereon, or granting such other relief as may be appropriate.

Case No. 24829: Proper spacing for the development of the Customs-Bakken Pool, Burke County, ND, redefine the field limits, and enact such special field rules as may be necessary. Cornerstone Natural Resources LLC

Case No. 24830: Proper spacing for the development of the Pickett-Bakken Pool, Burke County, ND, redefine the field limits, and enact such special field rules as may be necessary. Cornerstone Natural Resources LLC

Case No. 24831: Proper spacing for the development of the Cherry Creek-Bakken Pool, McKenzie County, ND, redefine the field limits, and enact such special field rules as may be necessary. Hess Bakken Investments II LLC

Case No. 24832: Application of Hess Bakken Investments II, LLC, for an order amending the applicable orders for the Alger-Bakken Pool to allow the EN Cvacara-LE-155-93-1523H-2 well (File No. 32096), located in the SWSE of Section 10, T.155N., R.93W., Mountrail County, ND, to be completed and produce with the wellbore potentially open to the reservoir at a location as close as 44 feet from the north line of Section 15, T.155N., R.93W., as an exception to the applicable well location rules, or granting such other relief as may be appropriate.

Case No. 24833: Application of Hess Bakken Investments II, LLC, for an order amending the applicable orders for the Elm Tree-Bakken Pool to (i) establish an overlapping 2560-acre spacing unit consisting of Sections 14, 15, 22 and 23, T.153N., R.94W., McKenzie County, ND, and authorize one horizontal well to be drilled on the unit; (ii) authorize up to twelve horizontal wells to be drilled on a 1280-acre spacing unit described as Sections 15 and 22, T.153N., R.94W.; and (iii) granting such other relief as may be appropriate.

Case No. 24834: Application of Hess Bakken Investments II, LLC, for an order amending the applicable orders for the Elm Tree-Bakken Pool, McKenzie County, ND, to establish an overlapping 2560-acre spacing unit consisting of Sections 15, 16, 21, and 22, T.153N., R.94W., and authorize one horizontal well to be drilled on each unit, and granting such other relief as may be appropriate.

Case No. 24501: (Continued) Proper spacing for the development of the Bounty

School-Bakken Pool, Divide County, ND, redefine the field limits, and enact such special field rules as may be necessary. Bakken Hunter, LLC

Case No. 24502: (Continued) Proper spacing for the development of the Crosby-Bakken Pool, Divide County, ND, redefine the field limits, and enact such special field rules as may be necessary. Bakken Hunter, LLC

Case No. 21588: (Continued) Proper spacing for the development of the North Taylor-Winnipeg Gas Pool, Stark County, ND, redefine the field limits, and enact such special field rules as may be necessary. BTA Oil Producers, LLC

Case No. 24835: Application of Marathon Oil Co. for an order amending the applicable orders for the Lost Bridge-Bakken Pool to establish a 2560-acre spacing unit described as Sections 1, 2, 11 and 12, T.148N., R.96W., Dunn County, ND, and allowing one horizontal well to be drilled on such spacing unit, and granting such other relief as may be appropriate.

Case No. 24836: Application of Marathon Oil Co. for an order amending the applicable orders for the Lost Bridge-Bakken and Bear Creek-Bakken Pools to establish a 3840-acre spacing unit described as Sections 13, 14, 23, 24, 25 and 26, T.148N., R.96W., Dunn County, ND, and allowing one horizontal well to be drilled on such spacing unit, and granting such other relief as may be appropriate.

Case No. 24837: Application of Marathon Oil Co. for an order amending the applicable orders for the McGregory Buttes-Bakken Pool (i) to allow up to twenty-one wells to be drilled on a 2560-acre spacing unit described as Sections 14, 15, 22 and 23, T.147N., R.94W.; (ii) to establish a 2560-acre overlapping spacing unit consisting of Sections 15, 16, 21 and 22, together with that portion of Section 28 within the Fort Berthold Indian Reservation (Lots 5 and 6 plus the Little Missouri River bed to the south bank thereof within Section 28), T.147N., R.94W., Dunn County, ND, and allow one horizontal well to be drilled on such spacing unit; and (iii) granting such other relief as may be appropriate.

Case No. 24602: (Continued) Application of OXY USA Inc. for an order authorizing the flaring of gas from certain wells completed in the Fayette-Bakken Pool, Dunn County, ND, for a temporary period of time as an exception to the provisions of Commission Order No. 24665, to allow the volumes of flared gas to be excluded from the calculations of state-wide and county-wide flare volumes, and such other relief as may be appropriate.

Case No. 24603: (Continued) Application of OXY USA Inc. for an order authorizing the flaring of gas from certain wells completed in the Murphy Creek-Bakken Pool, Dunn County, ND, for a temporary period of time as an exception to the provisions of Commission Order No. 24665, to allow the volumes of flared gas to be excluded from the calculations of state-wide and county-wide flare volumes, and such other relief as may be appropriate.

Case No. 24688: (Continued) Application of HRC Operating, LLC, for an order amending the field rules for the Antelope-Sanish Pool to reduce the minimum setbacks from the "heel and toe" from 200 feet to 50 feet for the North and South boundaries of a 2560-acre spacing unit described as Sections 14, 15, 22 and 23, T.152N., R.94W., McKenzie County, ND, and for such other relief as may be appropriate.

Case No. 24838: A motion of the Commission to review the temporarily abandoned status of the Petro Harvester Operating Co., LLC #3 Galvin Well (File No. 11649) located in the SWNW of Section 12, T.163N., R.91W., Flaxton Field, Burke County, ND, pursuant to NDCC § 38-08-04.

Case No. 24708: (Continued) A motion of the Commission to review the temporarily abandoned status of the C12 Energy: ND LLC #08 Dickinson-Heath-Sand Unit (File No. 4919) located in the NWSE of Section 22, T.140N., R.96W., Dickinson Field, Stark County, ND, pursuant to NDCC § 38-08-04.

Case No. 24839: Application of Hess Bakken Investments II, LLC, for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 25 and 36, T.153N., R.95W., and Sections 30 and 31, T.153N., R.94W., Antelope-Sanish Pool, McKenzie County, ND, as provided by NDCC § 38-08-08, and such other relief as is appropriate.

Case No. 24840: Application of Hess Bakken Investments II, LLC, for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 27, 28, 33 and 34, T.153N., R.94W., Antelope-Sanish Pool, McKenzie County, ND, as provided by NDCC § 38-08-08, and such other relief as is appropriate.

Case No. 24841: Application of Hess Bakken Investments II, LLC, for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 28, 29, 32 and 33, T.153N., R.94W., Antelope-Sanish Pool, McKenzie County, ND, as provided by NDCC § 38-08-08, and such other relief as is appropriate.

Case No. 24842: Application of Hess Bakken Investments II, LLC, for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 14, 15, 22 and 23, T.153N., R.94W., Elm Tree-Bakken Pool, McKenzie County, ND, as provided by NDCC § 38-08-08, and such other relief as is appropriate.

Case No. 24843: Application of Hess Bakken Investments II, LLC, for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 15, 16, 21 and 22, T.153N., R.94W., Elm Tree-Bakken Pool, McKenzie County, ND, as provided by NDCC § 38-08-08, and such other relief as is appropriate.

Case No. 24844: Application of Hess Bakken Investments II, LLC, for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 8, 9, 16 and 17, T.152N., R.99W., Banks-Bakken Pool, McKenzie County, ND, as provided by NDCC § 38-08-08, and such other relief as is appropriate.

Case No. 24845: Application of Hess Bakken Investments II, LLC, for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 13 and 24, T.152N., R.97W. and Sections 18 and 19, T.152N., R.96W., Westberg-Bakken Pool, McKenzie County, ND, as provided by NDCC § 38-08-08, and such other relief as is appropriate.

Case No. 24846: Application of Hess Bakken Investments II, LLC, for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as

Sections 25 and 36, T.152N., R.96W. and Sections 30 and 31, T.152N., R.95W., Clear Creek-Bakken Pool, McKenzie County, ND, as provided by NDCC § 38-08-08, and such other relief as is appropriate.

Case No. 24847: Application of Hess Bakken Investments II, LLC, for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 16, 17, 20 and 21, T.152N., R.95W., Hawkeye-Bakken Pool, McKenzie County, ND, as provided by NDCC § 38-08-08, and such other relief as is appropriate.

Case No. 24848: Application of Hess Bakken Investments II, LLC, for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 29, 30, 31 and 32, T.152N., R.95W., Hawkeye-Bakken Pool, McKenzie County, ND, as provided by NDCC § 38-08-08, and such other relief as is appropriate.

Case No. 24849: Application of Hess Bakken Investments II, LLC, for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 25 and 36, T.151N., R.96W. and Sections 30 and 31, T.151N., R.95W., Blue Buttes-Bakken Pool, McKenzie County, ND, as provided by NDCC § 38-08-08, and such other relief as is appropriate.

Case No. 24850: Application of Hess Bakken Investments II, LLC, for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 28, 29, 32 and 33, T.151N., R.95W., Blue Buttes-Bakken Pool, McKenzie County, ND, as provided by NDCC § 38-08-08, and such other relief as is appropriate.

Case No. 24851: Application of Hess Bakken Investments II, LLC, for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 29, 30, 31 and 32, T.151N., R.95W., Blue Buttes-Bakken Pool, McKenzie County, ND, as provided by NDCC § 38-08-08, and such other relief as is appropriate.

Case No. 24852: Application of Hess Bakken Investments II, LLC, for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 5, 6, 7 and 8, T.150N., R.95W., Blue Buttes-Bakken Pool, McKenzie County, ND, as provided by NDCC § 38-08-08, and such other relief as is appropriate.

Case No. 24853: Application of Hess Bakken Investments II, LLC pursuant to NDAC § 43-02-03-88.1 for an order allowing oil and gas produced from the CA-Stangeland-155-95-2128H-8 (File No. 31996), CA-Stangeland-155-95-2128H-9 (File No. 31997), and CA-Stangeland-155-95-2128H-10 (File No. 31998) wells, Sections 21 and 28, T.155N., R.95W., Williams County, ND, to be commingled in a central production facility located in Section 21, T.155N., R.95W., pursuant to NDAC § 43-02-03-48.1 or granting such other and further relief as may be appropriate.

Case No. 24854: Application of Hess Bakken Investments II, LLC pursuant to NDAC § 43-02-03-88.1 for an order allowing oil and gas produced from the CA-Stangeland-155-95-2128H-1 (File No. 21730) and CA-Stangeland-155-95-2128H-2 (File No. 21731) wells, Sections 21 and 28, T.155N., R.95W., Williams County, ND, to be commingled in a central production facility located in Section 21, T.155N., R.95W., pursuant to NDAC § 43-02-03-48.1 or granting such other and further relief as may be appropriate.

Case No. 24855: Application of Hess Bakken Investments II, LLC pursuant to NDAC § 43-02-03-88.1 for an order allowing oil and gas produced from the EN-Rehak-155-93-0718H-5 (File No. 28466), EN-Rehak-155-93-0718H-6 (File No. 28467), EN-Rehak-155-93-0718H-7 (File No. 28468), and EN-Rehak-155-93-0718H-8 (File No. 28469) wells, Sections 7 and 18, T.155N., R.93W., Mountrail County, ND, to be commingled in a central production facility located in Section 6, T.155N., R.93W., pursuant to NDAC § 43-02-03-48.1 or granting such other and further relief as may be appropriate.

Case No. 24856: Application of Marathon Oil Co. for an order amending the applicable orders for the Reunion Bay-Bakken Pool to authorize up to nine horizontal wells to be drilled on a 1280-acre spacing unit described as all of Sections 27 and 34, T.152N., R.93W., McKenzie and Mountrail Counties, ND, and granting such other relief as may be appropriate.

Case No. 24857: Application of Marathon Oil Co. for an order amending the applicable orders for the Lost Bridge-Bakken Pool to authorize up to eighteen wells to be drilled on a 2560-acre spacing unit described as Sections 1, 12, 13 and 24, T.148N., R.96W., Dunn County, ND, and granting such other relief as may be appropriate.

Case No. 24858: Application of QEP Energy Co. for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 35 and 36, T.151N., R.95W. and Sections 1 and 2, T.150N., R.95W., Blue Buttes-Bakken Pool, McKenzie County, ND, as provided by NDCC § 38-08-08, and such other relief as is appropriate.

Case No. 24859: Application of QEP Energy Co. for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 17, 18, 19 and 20, T.149N., R.95W., Bear Den-Bakken Pool, McKenzie County, ND, as provided by NDCC § 38-08-08, and such other relief as is appropriate.

Case No. 24860: Application of QEP Energy Co. for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 20, 21, 28 and 29, T.149N., R.95W., Bear Den-Bakken Pool, McKenzie County, ND, as provided by NDCC § 38-08-08, and such other relief as is appropriate.

Case No. 24861: Application of Petro-Hunt, LLC, for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as all of Sections 30 and 31, T.146N., R.97W., Little Knife-Bakken Pool, Dunn County, ND, as provided by NDCC § 38-08-08, and such other relief as is appropriate.

Case No. 24862: Application of Gadeco, LLC for an order amending applicable field orders and authorizing up to twelve wells to be drilled on the existing 1280-acre spacing unit described as Sections 25 and 36, T.155N., R.99W., Williams County, ND, Epping-Bakken Pool, and other relief as may be appropriate.

Signed by,

Jack Dalrymple, Governor  
Chairman, ND Industrial Commission  
2/1 - 20829815



**Affidavit of Publication**  
**The Dickinson Press**  
Dickinson, North Dakota

**Received**

**FEB 16 2016**

**ND Oil & Gas Division**

STATE OF NORTH DAKOTA )  
County of Stark ) ss

Sonya Sacks being first duly sworn, on my oath,  
say that I am the bookkeeper of The Dickinson Press, a daily  
newspaper of general circulation, printed and published at Dickinson,  
in said county and state, and the advertisement headed:

Feb 24 hearing

a printed copy of which is hereunto annexed, was printed and published  
in The Dickinson Press, and in the regular and entire issue of each  
and every number for 1 consecutive weeks, commencing on the  
3 day of February A.D. 2016 and ending on the  
3 day of February A.D. 2016, both inclusive.

Straight Matter Lines 35 \_\_\_\_\_, 2016

First Time Line Rates 0.81 \_\_\_\_\_ 3-Feb, 2016

Subsequent Line Rates 0.81 \_\_\_\_\_, 2016

Column Inches \_\_\_\_\_, 2016

First Time Inch Rate \$8.86 \_\_\_\_\_, 2016

Subsequent Inch Rate \$8.86 \_\_\_\_\_, 2016

Total Cost of Legal \$ 28.35

Sonya Sacks  
Subscribed and sworn to before me this 10th day of  
February \_\_\_\_\_ A.D. 2016.

(Seal)

Melanie Epperly

Notary Public, State Of North Dakota

My Commission Expires \_\_\_\_\_

**NOTICE OF HEARING**  
**N.D. INDUSTRIAL COMMISSION**  
**OIL AND GAS DIVISION**

The North Dakota Industrial Commission will hold a public hearing at 9:00 a.m. Wednesday, February 24, 2016, at the N.D. Oil & Gas Division, 1000 East Calgary Ave., Bismarck, N.D. At the hearing the Commission will receive testimony and exhibits. Persons with any interest in the cases listed below, take notice.

PERSONS WITH DISABILITIES: If at the hearing you need special facilities or assistance, contact the Oil and Gas Division at 701-328-8038 by Thursday, February 11, 2016.

**STATE OF NORTH DAKOTA TO:**

**Case No. 21588:** (Continued) Proper spacing for the development of the North Taylor-Winnipeg Gas Pool, Stark County, ND, redefine the field limits, and enact such special field rules as may be necessary. BTA Oil Producers, LLC  
**Case No. 24708:** (Continued) A motion of the Commission to review the temporarily abandoned status of the C12 Energy: ND LLC #08 Dickinson-Heath-Sand Unit (File No. 4919) located in the NWSE of Section 22, T.140N., R.96W., Dickinson Field, Stark County, ND, pursuant to NDCC § 38-08-04.

Signed by,

Jack Dalrymple, Governor  
Chairman, ND Industrial Commission  
(Published February 3, 2016)

MELANIE EPPERLY  
NOTARY PUBLIC, STATE OF NORTH DAKOTA  
COMMISSION EXPIRES NOV 5, 2016

# Affidavit of Publication

The Dickinson Press  
Dickinson, North Dakota



STATE OF NORTH DAKOTA )  
County of Stark ) ss

Sonya Sacks being first duly sworn, on my oath,  
say that I am the bookkeeper of The Dickinson Press, a daily  
newspaper of general circulation, printed and published at Dickinson,  
in said county and state, and the advertisement headed:

Dec 17 hearing

a printed copy of which is hereunto annexed, was printed and published  
in The Dickinson Press, and in the regular and entire issue of each  
and every number for 1 consecutive weeks, commencing on the

25 day of November A.D. 2015 and ending on the  
25 day of November A.D. 2015, both inclusive.

Straight Matter Lines 29 ,2015

First Time Line Rates 0.81 25-Nov ,2015

Subsequent Line Rates 0.81 ,2015

Column Inches \_\_\_\_\_ ,2015

First Time Inch Rate \$8.86 ,2015

Subsequent Inch Rate \$8.86 ,2015

Total Cost of Legal \$ 23.49

Sony Sacks  
Subscribed and sworn to before me this 2nd day of  
December \_\_\_\_\_ A.D. 2015.

(Seal)

Melanie Epperly  
Notary Public, State Of North Dakota

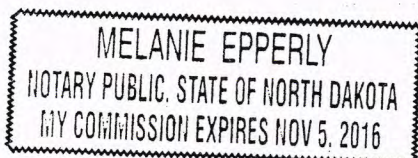
My Commission Expires \_\_\_\_\_

## NOTICE OF HEARING N.D. INDUSTRIAL COMMISSION OIL AND GAS DIVISION

The North Dakota Industrial Commission will hold a public hearing at 9:00 a.m. Thursday, December 17, 2015, at the N.D. Oil & Gas Division, 1000 East Calgary Ave., Bismarck, N.D. At the hearing the Commission will receive testimony and exhibits. Persons with any interest in the cases listed below, take notice. PERSONS WITH DISABILITIES: If at the hearing you need special facilities or assistance, contact the Oil and Gas Division at 701-328-8038 by Friday, December 04, 2015.

STATE OF NORTH DAKOTA TO:  
Case No. 24708: A motion of the Commission to review the temporarily abandoned status of the C12 Energy: ND LLC #08 Dickinson-Heath-Sand Unit (File No. 4919) located in the NWSE of Section 22, T.140N., R.96W., Dickinson Field, Stark County, ND, pursuant to NDCC § 38-08-04.

Signed by,  
Jack Dalrymple, Governor  
Chairman, ND Industrial  
(Published November 25, 2015)





The Bismarck  
**Tribune**  
www.bismarcktribune.com

The  
**Finder**  
BISMARCK, MINNEAPOLIS, DULUTH, LA CROSSE & SHIPPENSBURG

**Classified  
Advertising  
Invoice**

Bismarck Tribune

PO BOX 4001  
LaCrosse, WI 54602-4001

888-418-6474

OIL & GAS DIVISION

600 E BLVD AVE #405  
BISMARCK ND 58505

Customer: 60010203

Phone: (701) 328-8020

Date: 11/25/2015

**CREDIT CARD PAYMENT (circle one)**



Card #:

Exp Date:

Signature:

Credit card users: Fax to 608-791-8212

Cash Amt

PLEASE DETACH AND RETURN TOP PORTION WITH YOUR PAYMENT

Lee Enterprises no longer accepts credit card payments sent via e-mail. Emails containing credit card numbers will be blocked. Please use the coupon above to send a credit card payment to remittance address located in the upper right corner. You may also send the coupon to a secure fax at 608-791-8212.

Date	Date	Times Run	Description	Lines	Class Code	Order Amt	Net Amt Due
11/25/15	11/25/15	1	Bismarck Tribune	453.00	Legals	375.99	375.99

**Affidavit of Publication:**

State of North Dakota ) SS County of Burleigh  
Before me, a Notary Public for the State of North Dakota  
personally appeared CK who being duly sworn, deposes  
and says that he (she) is the Clerk of Bismarck Tribune Co.,  
and that the publication(s) were made through the  
Bismarck Tribune on the following dates:  
11/25 Signed [Signature]  
sworn and subscribed to before me this 2nd  
day of December 2015  
[Signature]  
Notary Public in and for the State of North Dakota



**MORGAN DOLL**  
Notary Public  
State of North Dakota  
My Commission Expires Jan. 26, 2017

Please return invoice or put order number on check. Thank You.

Remarks Total Due: 375.99

Bismarck Tribune  
www.bismarcktribune.com  
PO BOX 4001  
LaCrosse, WI 54602-4001

Terms: PAYMENT IS DUE UPON RECEIPT OF INVOICE



# **NOTICE OF HEARING N.D. INDUSTRIAL COMMISSION OIL AND GAS DIVISION**

The North Dakota Industrial Commission will hold a public hearing at 9:00 a.m. Thursday, December 17, 2015, at the N.D. Oil & Gas Division, 1000 East Calgary Ave., Bismarck, N.D. At the hearing the Commission will receive testimony and exhibits. Persons with any interest in the

cases listed below, take notice.

**PERSONS WITH DISABILITIES:** If at the hearing you need special facilities or assistance, contact the Oil and Gas Division at 701-328-8038 by Friday, December 11, 2015.

## **STATE OF NORTH DAKOTA TO:**

Case No. 24704: Proper spacing for the development of the Hanks-Bakken Pool, Williams County, ND, redefine the field limits, and enact such special field rules as may be necessary. Newfield Production Co. Case No. 24705: Proper spacing for the development of the Bar Butte-Bakken Pool, Williams County, ND, redefine the field limits, and enact such special field rules as may be necessary. Newfield Production Co. Case No. 24706: Temporary spacing to develop an oil and/or gas pool discovered by the Sinclair Oil and Gas Co. #11-2 Robert Peterson (File No. 15669), SWSV Section 11, T.149N., R.99W., McKenzie County, ND, define the field limits, and enact such special field rules as may be necessary. Case No. 24707: Application of Sinclair Oil & Gas Co. for an order amending the applicable orders for the Robinson Lake-Bakken Pool to allow the Sinclair State 4-36H well (File No. 30613) to be drilled and completed in such fashion that portions of the well bore not isolated by cement may be as close as 62 feet to the southern boundary of the spacing unit comprised of Sections 25 and 36, T.154N., R.93W., Mountrail County, ND, as an exception to the applicable well location requirements, and such other relief as is appropriate.

Case No. 24708: A motion of the Commission to review the temporarily abandoned status of the C12 Energy: ND LLC #08 Dickinson-Heath-Sand Unit (File No. 4919) located in the NWSE of Section 22, T.140N., R.96W., Dickinson Field, Stark County, ND, pursuant to NDCC § 38-08-04.

Case No. 24709: A motion of the Commission to review the temporarily abandoned status of the Citation Oil & Gas Corp. #5 Haakenstad 12-21 (File No. 13136) located in the SWNW of Section 21, T.163N., R.77W., Harem Field, Bottineau County, ND, pursuant to NDCC § 38-08-04.

Case No. 24710: A motion of the Commission to review the temporarily abandoned status of the Citation Oil & Gas Corp. #3 Haakenstad 21-21 (File No. 13138) located in the NENW of Section 21, T.163N., R.77W., Harem Field, Bottineau County, ND, pursuant to NDCC § 38-08-04.

Case No. 24711: Application of Statoil Oil and Gas LP for an order amending the field rules for the Stony Creek and Avoca-Bakken Pools, Williams County, ND, to reduce the minimum setbacks from 200 feet to 50 feet, and/or from 500 feet to 200 feet for all wells drilled on a 1280-acre spacing unit described as Sections 11 and 14, T.154N., R.100W., and also reduce the setbacks for any other existing spacing units that border said 1280-acre spacing unit boundaries to the north and south of the above-described spacing unit, and such other relief as is appropriate.

Case No. 24712: Application of WPX Energy Williston, LLC for an order amending the field rules for the Mandaree-Bakken Pool to create and establish an overlapping 2560-acre spacing unit comprised of Sections 33 and 34, T.150N., R.93W. and Sections 3 and 4, T.149N., R.93W., Dunn County, ND, authorizing the drilling of one horizontal well on said overlapping 2560-acre spacing unit and such other relief as is appropriate.

Case No. 24713: Application of Vast Operations, LLC for an order amending the field rules for the Crosby-Madison Pool to create and establish two 640-acre spacing units comprised of Section 33 and Section 34, T.164N., R.97W., Divide County, ND, authorizing the drilling of a well on each 640-acre spacing unit, and such other relief as is appropriate.

Case No. 24714: Application of XTO Energy Inc. for an order amending the field rules for the Lost Bridge-Bakken Pool to create and establish an overlapping 2560-acre spacing unit comprised of Sections 11, 12, 13 and 14, T.148N., R.96W., Dunn County, ND, authorizing the drilling of a horizontal well on or near the section line between existing 1280 and 2560-acre spacing units on said proposed overlapping 2560 spacing unit and such other relief as is appropriate. Case No. 24715: Application of XTO Energy Inc. for an order amending the field rules for the Bear Creek-Bakken Pool to create and establish an overlapping 1280-acre spacing unit comprised of Section 36, T.148N., R.96W. and Section 1, T.147N., R.96W., Dunn County, ND, authorizing the drilling of a total not to exceed two wells on or near the section line between the existing 1280 and 640-acre spacing units of the proposed overlapping 1280-acre spacing unit, and such other relief as is appropriate.

Case No. 24563: (Continued) Application of XTO Energy Inc. for an order authorizing the flaring of gas from certain current and future wells completed in the Arnegard-Bakken Pool, McKenzie County, ND, for a temporary period of time and to allow the volumes of flared gas to be excluded from the calculations of statewide and county wide flare volumes as an exception to the provisions of Commission Order No. 24665 and such other relief as is appropriate.

Case No. 24564: (Continued) Application of XTO Energy Inc. for an order authorizing the flaring of gas from certain current and future wells completed in the Bear Den-Bakken Pool, McKenzie County, ND, for a temporary period of time and to allow the volumes of flared gas to be excluded from the calculations of statewide and county wide flare volumes as an exception to the provisions of Commission Order No. 24665 and such other relief as is appropriate.

Case No. 24565: (Continued) Application of XTO Energy Inc. for an order authorizing the flaring of gas from certain current and future wells completed in the Charlson-Bakken Pool, McKenzie, Mountrail and Williams Counties, ND, for a temporary

period of time and to allow the volumes of flared gas to be excluded from the calculations of statewide and county wide flare volumes as an exception to the provisions of Commission Order No. 24665 and such other relief as is appropriate.

Case No. 24566: (Continued) Application of XTO Energy Inc. for an order authorizing the flaring of gas from certain current and future wells completed in the Crazy Man Creek-Bakken Pool, McKenzie and Williams Counties, ND, for a temporary period of time and to allow the volumes of flared gas to be excluded from the calculations of statewide and county wide flare volumes as an exception to the provisions of Commission Order No. 24665 and such other relief as is appropriate.

Case No. 24567: (Continued) Application of XTO Energy Inc. for an order authorizing the flaring of gas from certain current and future wells completed in the Garden-Bakken Pool, McKenzie County, ND, for a temporary period of time and to allow the volumes of flared gas to be excluded from the calculations of statewide and county wide flare volumes as an exception to the provisions of Commission Order No. 24665 and such other relief as is appropriate.

Case No. 24568: (Continued) Application of XTO Energy Inc. for an order authorizing the flaring of gas from certain current and future wells completed in the Grinnell-Bakken Pool, McKenzie and Williams Counties, ND, for a temporary period of time and to allow the volumes of flared gas to be excluded from the calculations of statewide and county wide flare volumes as an exception to the provisions of Commission Order No. 24665 and such other relief as is appropriate.

Case No. 24569: (Continued) Application of XTO Energy Inc. for an order authorizing the flaring of gas from certain current and future wells completed in the Lost Bridge-Bakken Pool, Dunn County, ND, for a temporary period of time and to allow the volumes of flared gas to be excluded from the calculations of statewide and county wide flare volumes as an exception to the provisions of Commission Order No. 24665 and such other relief as is appropriate.

Case No. 24570: (Continued) Application of XTO Energy Inc. for an order authorizing the flaring of gas from certain current and future wells completed in the North Tobacco Garden-Bakken Pool, McKenzie County, ND, for a temporary period of time and to allow the volumes of flared gas to be excluded from the calculations of statewide and county wide flare volumes as an exception to the provisions of Commission Order No. 24665 and such other relief as is appropriate.

Case No. 24571: (Continued) Application of XTO Energy Inc. for an order authorizing the flaring of gas from certain current and future wells completed in the Sand Creek-Bakken Pool, McKenzie County, ND, for a temporary period of time and to allow the volumes of flared gas to be excluded from the calculations of statewide and county wide flare volumes as an exception to the provisions of Commission Order No. 24665 and such other relief as is appropriate.

Case No. 24572: (Continued) Application of XTO Energy Inc. for an order authorizing the flaring of gas from certain current and future wells completed in the Silverston-Bakken Pool, McKenzie County, ND, for a temporary period of time and to allow the volumes of flared gas to be excluded from the calculations of statewide and county wide flare volumes as an exception to the provisions of Commission Order No. 24665 and such other relief as is appropriate.

Case No. 24573: (Continued) Application of XTO Energy Inc. for an order authorizing the flaring of gas from certain current and future wells completed in the Tobacco Garden-Bakken Pool, McKenzie County, ND, for a temporary period of time and to allow the volumes of flared gas to be excluded from the calculations of statewide and county wide flare volumes as an exception to the provisions of Commission Order No. 24665 and such other relief as is appropriate.

Case No. 24574: (Continued) Application of XTO Energy Inc. for an order authorizing the flaring of gas from certain current and future wells completed in the Truax-Bakken Pool, McKenzie and Williams Counties, ND, for a temporary period of time and to allow the volumes of flared gas to be excluded from the calculations of statewide and county wide flare volumes as an exception to the provisions of Commission Order No. 24665 and such other relief as is appropriate.

Case No. 24716: Application of EOG Resources, Inc. for an order amending the field rules for Stanley and/or Parshall-Bakken Pool, Mountrail County, ND, to create and establish the following: (i) an overlapping 1280-acre spacing unit comprised of Sections 20 and 21, T.155N., R.90W.; and (ii) an overlapping 1920-acre spacing unit comprised of Sections 27, 28 and 34, T.155N., R.90W., authorizing the drilling of multiple wells on said proposed overlapping 1280 and 1920-acre spacing units, eliminating any tool error requirements and such other relief as is appropriate.

Case No. 24717: Application of Continental Resources, Inc. for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 16 and 21, T.152N., R.94W., Antelope-Sanish Pool, McKenzie County, ND, as provided by NDCC § 38-08-08 and such other relief as is appropriate.

Case No. 24718: Application of Continental Resources, Inc. as provided for in NDAC § 43-02-03-88.1 for an order allowing the production from the following described wells: Candee 8-9H well (File No. 32093), Candee 7-9H well (File No. 32095), and Kukla 7-16H well (File No. 32094), to be produced into the Candee-Kukla Central Tank Battery (CTB No. 229473-01) or production facility, all located or to be

located in Section 9, T.146N., R.95W., Chimney Butte Field, Dunn County, ND, as an exception to the provisions of NDAC § 43-02-03-48 pursuant to 43-02-03-48.1 and such other relief as is appropriate.

Case No. 24719: Application of Newfield Production Co. for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests for wells drilled on the overlapping spacing unit described as Sections 10 and 15, T.148N., R.96W., Lost Bridge-Bakken Pool, Dunn County, ND, as provided by NDCC § 38-08-08 but not reallocating production for wells producing on other spacing units and such other relief as is appropriate.

Case No. 24720: Application of XTO Energy Inc. for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 25 and 36, T.154N., R.97W., Grinnell-Bakken Pool, Williams and McKenzie Counties, ND as provided by NDCC § 38-08-08 and such other relief as is appropriate.

Case No. 24721: Application of XTO Energy Inc. for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 26 and 35, T.154N., R.97W., Grinnell-Bakken Pool, McKenzie County, ND as provided by NDCC § 38-08-08 and such other relief as is appropriate.

Case No. 24722: Application of XTO Energy Inc. for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 9 and 16, T.149N., R.97W., North Fork-Bakken Pool, McKenzie County, ND as provided by NDCC § 38-08-08 and such other relief as is appropriate.

Case No. 24723: Application of XTO Energy Inc. for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as Section 24, T.149N., R.96W. and Section 19, T.149N., R.95W., Bear Den-Bakken Pool, McKenzie County, ND as provided by NDCC § 38-08-08 and such other relief as is appropriate.

Case No. 24724: Application of XTO Energy Inc. for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 19 and 20, T.150N., R.95W., Blue Buttes-Bakken Pool, McKenzie County, ND as provided by NDCC § 38-08-08 and such other relief as is appropriate.

Case No. 24725: Application of XTO Energy Inc. for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as Section 16, T.153N., R.95W., Charlson-Bakken Pool, McKenzie County, ND as provided by NDCC § 38-08-08 and such other relief as is appropriate.

Case No. 24726: Application of XTO Energy Inc. for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in an overlapping spacing unit described as Sections 16 and 17, T.153N., R.95W., Charlson-Bakken Pool, McKenzie County, ND as provided by NDCC § 38-08-08 but not reallocating production for wells producing on other spacing units and such other relief as is appropriate.



Case No. 24727: Application of XTO Energy Inc. for an order pursuant to NDAC Section 43-02-03-88.1 pooling all interests in a spacing unit described as Section 26, T.153N., R.95W., Carlson-Bakken Pool, McKenzie County, ND as provided by NDCC Section 38-08-08 and such other relief as is appropriate.

Case No. 24728: Application of Emerald Oil, Inc. for an order authorizing the drilling, completing and producing of a total not to exceed seven wells on each existing 1280-acre spacing unit described as Sections 27 and 34; Sections 28 and 33; and Sections 29 and 32, T.147N., R.102W., Hay Draw-Bakken Pool, McKenzie County, ND, eliminating any tool error requirements and such other relief as is appropriate.

Case No. 24729: In the matter of the petition for a risk penalty of Sinclair Oil & Gas Co. requesting an order authorizing the recovery of a risk penalty from certain non-participating owners, as provided by NDCC § 38-08-08 in the drilling and completing of the Porcupine 1-19H well (File No. 19269) located in a spacing unit described as Sections 18 and 19, T.146N., R.97W., Little Knife-Bakken Pool, Dunn County, ND, pursuant to NDAC § 43-02-03-88.1, and such other relief as is appropriate.

Case No. 24730: In the matter of the petition for a risk penalty of Sinclair Oil & Gas Co. requesting an order authorizing the recovery of a risk penalty from certain non-participating owners, as provided by NDCC § 38-08-08 in the drilling and completing of the Porcupine 2-19H well (File No. 31314) located in a spacing unit described as Sections 18 and 19, T.146N., R.97W., Little Knife-Bakken Pool, Dunn County, ND, pursuant to NDAC § 43-02-03-88.1, and such other relief as is appropriate.

Case No. 24731: In the matter of the petition for a risk penalty of Sinclair Oil & Gas Co. requesting an order authorizing the recovery of a risk penalty from certain non-participating owners, as provided by NDCC § 38-08-08 in the drilling and completing of the Harris Federal 1-30H well (File No. 22584) located in a spacing unit described as Sections 30 and 31, T.147N., R.97W., Lone Butte-Bakken Pool, Dunn County, ND, pursuant to NDAC § 43-02-03-88.1, and such other relief as is appropriate.

Case No. 24732: In the matter of the petition for a risk penalty of Sinclair Oil & Gas Co. requesting an order authorizing the recovery of a risk penalty from certain non-participating owners, as provided by NDCC § 38-08-08 in the drilling and completing of the Harris Federal 1-29H well (File No. 22662) located in a spacing unit described as Sections 29 and 32, T.147N., R.97W., Lone Butte-Bakken Pool, Dunn County, ND, pursuant to NDAC § 43-02-03-88.1, and such other relief as is appropriate.

Signed by,

Jack Dalrymple, Governor  
Chairman, ND Industrial Commission  
11/25 - 20820861