

Design Approval

## APPLICATION FOR INJECTION WELL

Disposal ☐Enhanced Recovery: ☒ Repressuring☐ Waterflood☐ Tertiary

Date: 10/09/2018

Operator License Number: 32457 Exp. 04/30/19

Operator: Abercrombie Energy, LLC

Address: 10209 W. Central, Ste 2

Wichita, KS 67208 67212

Mark Galyon

Contact Person: Grant Galyon (cc)

Phone: 316-262-1841

Email: grant@abercrombiegroup.com

Permit Number: Pending E-32,751

API Number: 15-175-21682

## Well Location

NW SE NE Sec. 26 Twp. 33 S. R. 31 ☐ E ☒ W1803 feet from ☒ N / ☐ S Line of Section862 feet from ☒ E / ☐ W Line of Section

GPS Location: Lat: (e.g. xx.xxxxx), Long: (e.g. -xxx.xxxxx)

Datum: ☒ NAD27 ☐ NAD83 ☐ WGS84

Lease Description: NE/4 and SW/4 of Sec 26-33S-31W

Lease Name: Brown Well Number: 1-26

Field Name: Kismet

County: Seward

## Deepest Usable Water

Formation: Received

Depth to Bottom of Formation: 516 KANSAS CORPORATION COMMISSION

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Check One: ☒ Old Well Being Converted☐ Newly Drilled Well☐ Well to be DrilledCONSERVATION DIVISION  
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Surface Elevation: 2733 feet Well Total Depth: 7290 feet Plug Back Depth: 6400 feet

Datum of top of injection formation: -2684 feet (reference mean sea level)

## Injection Formation Description:

Name	top / bottom	perf / open hole	depth
Mississippi	5603 /	Perf	See Attach to feet
	/	at	to feet

## List of Wells/Facilities Supplying Produced Saltwater or Other Fluids Approved by the Conservation Division:

(attach additional sheets if necessary)

Lease Operator	Lease/Facility Name	Lease/Facility Description	Well ID & Spot Location
1. SEE ATTACHED			
2.			
3.			

Producing Formation	Strata Depth	Total Dissolved Solids (if available)
1. SEE ATTACHED	to feet	mg/l
2.	to feet	mg/l
3.	to feet	mg/l

Maximum Requested Liquid Injection Rate: 2000 bbls / day; or

Maximum Requested Gas Injection Rate: scf / day. Type of Gas:

Maximum Requested Injection Pressure: 1500 psig

Well Name	Legal	Spot Loc	Producing Formation	Depth
Frederick #2	Sec 26-33S-31W	SE-NE	LKC	4458 - 4462
			Ft. Sct	5107 - 4110
			Miss	5822 - 5837
Frederick #7	Sec 26-33S-31W	E/2 NE	Council Grove	3092 - 3189
			LKC	4855 - 4860
Hays #1	Sec 35-33S-31W	NE-SE	Miss	5836 - 5852
Hays #3	Sec 35-33S-31W	SE-SE	LKC	4464
			Miss	5890 - 5925
Higgins #1	Sec 35-33S-31W	NE-NW	Tor	4312 - 4315
			Miss	5850 - 5866
			Miss	5902 - 5914
Simonson #1	Sec 26-33S-31W	NE-SE	LKC	4456 - 4461
			Miss	5836 - 5863
Simonson #2	Sec 26-33S-31W	NW-SE	Council Grove	3200 - 3216
			Miss	5876 - 5909
Simonson #3	Sec 26-33S-31W	SE-SE	LKC	4448 - 4453
			Miss	5836 - 5849
Simonson #4	Sec 26-33S-31W	SW-SE	Miss	5818 - 5840
			Miss	5894 - 5901
Simonson #1-26	Sec 26-33S-31W	NE-NE-SE	Miss	5820 - 5826
Wheatley A #1	Sec 23-33S-31W	SW SE	Miss	5885 - 5893
Wheatley A #2	Sec 23-33S-31W	NW-SE	Miss	5893 - 5908

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**Well Completion**Type: ☒ Tubing & Packer ☐ Packerless ☐ Tubingless

	Conductor	Surface	Intermediate	Production	Tubing
Size		8 5/8"		5 1/2"	2 7/8"
Setting Depth		1713'		7277'	5756
Amount of Cement		955 sx		370 sx	
Top of Cement		0'		5287'	
Bottom of Cement		1713'		7277'	

If Alternate II cementing, complete the following:

Perforations / D.V. Tool at \_\_\_\_\_ feet, cemented to \_\_\_\_\_ feet with \_\_\_\_\_ sx.

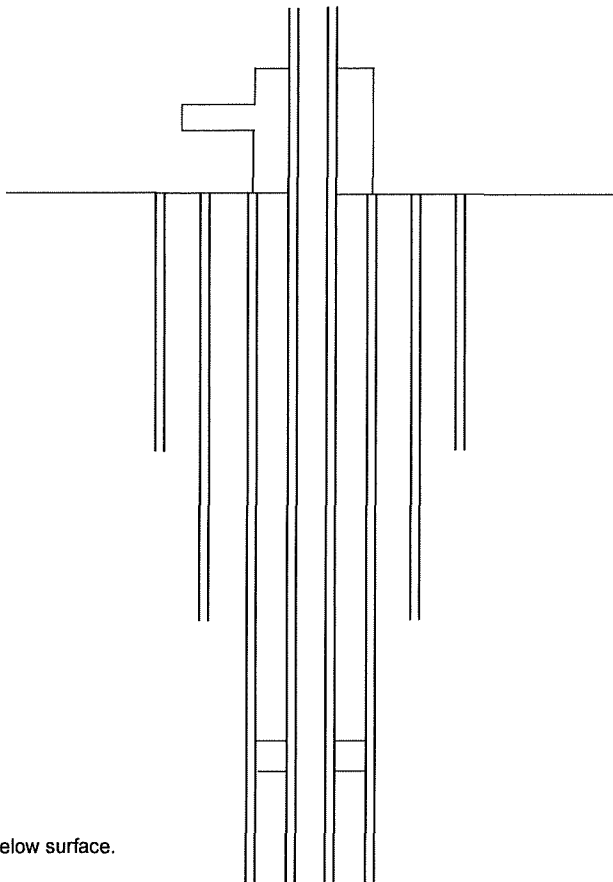
Tubing: Type Internally Coated (2 7/8" IPC) Grade J-55Packer: Type Arrowset 1 - Nickel Plated (5 1/2") or equivalent Depth 5756Annulus Corrosion Inhibitor: Type KW-37 Concentration 20,000 ppmList Logs Enclosed: Array Induction/SP/GRReceived  
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(To sketch installation, darken the appropriate lines, indicate cement, and show depths.)

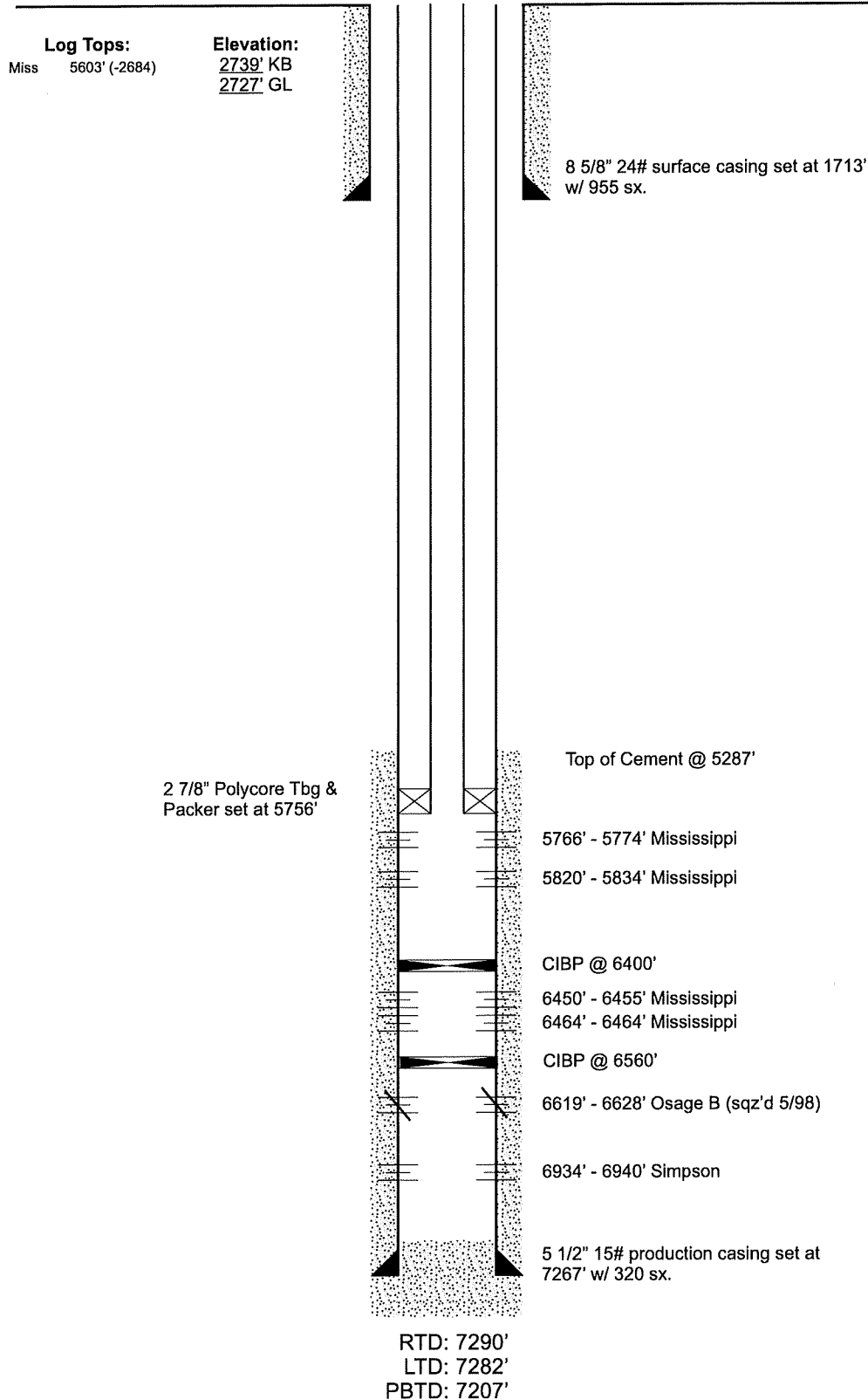
See Attachment

Static fluid level is 0 feet below surface.

# Downhole Configuration Diagram

Operator: Abercrombie Energy, LLC  
Well Name: Brown #1-26  
S-T-R: Section 26-33S-31W  
Spot Location: NW SE NE  
County: Seward County, KS  
API #: 15-175-21682

Spud Date: 10-31-97  
Completion Date: 12-09-98  
Date of First Production:  
Purchaser:  
RTD: 7290' LTD: 7282' PBDT: 7207'  
Wellsite Geologist: Douglas A. Draves



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**Offset Operators, Unleased Mineral Owners and Landowners acreage**

(Attach additional sheets if necessary)

Name:

Legal Description of Leasehold:

Raydon Exploration, Inc.

SW/4 Sec. 23-33S-31W &amp; NW/4 Sec. 26-33S-31W

Rama Operating Company, Inc.

SE/4 Sec. 23-33S-31W

Neumann-Wheatley Farms, Inc.

SW/4 Sec. 24-33S-31W

Abercrombie Energy, LLC

E/2 &amp; SW/4 Sec. 26-33S-31W

Edison Operating Company, LLC

NW/4 Sec. 25-33S-31W

American Warrior, Inc.

SW/4 Sec. 25-33S-31W

L.H. &amp; Thais Brown

NE/4 Sec. 26-33S-31W

I hereby certify that the statements made herein are true and correct to the best of my knowledge and belief.

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Applicant or Duly Authorized Agent

Subscribed and sworn before me this 18<sup>th</sup> day of October, 2018

Notary Public

My Commission Expires: 3-1-2020**Instructions:**

1. Fully complete application, including page 4 (*plat map*) showing subject well and all known oil, gas and input wells, including wells being drilled, inactive wells, or dry holes, within one-half mile. Show lease names and operators or unleased mineral rights owners of all lands within one-half mile. Show well numbers and elevations of producing formation tops.
2. Attach some type of log (*drillers log, electric log, etc.*).
3. Attach some type of verification of cementing for surface casing, longstring, D.V. tool, perforations, etc. (*Cement ticket and job log, bond log, etc.*)
4. Attach Affidavit of Notice.
5. Fill in schematic drawing of subsurface facilities including: size, setting depth, amount of cement, measured or calculated tops of cement for each of surface, intermediate (*if any*) and production casing; size and setting depth of tubing and packer; geological zone of injection showing top and bottom of injection interval.
6. The original and one copy of the application and all attachments shall be mailed to the State Corporation Commission, Conservation Division.
7. Deliver or mail one (1) copy of the application to the landowner on whose land the injection well is located and to each operator or lessee of record and each unleased mineral rights owner within one-half mile of the applicant well.
8. Approval of this application, if granted, is valid only as long as there are no substantial changes in operation set forth in the application. A substantial change requires the approval of a new application. **No injection well may be used without prior written authorization.**
9. All application fees must accompany the application.

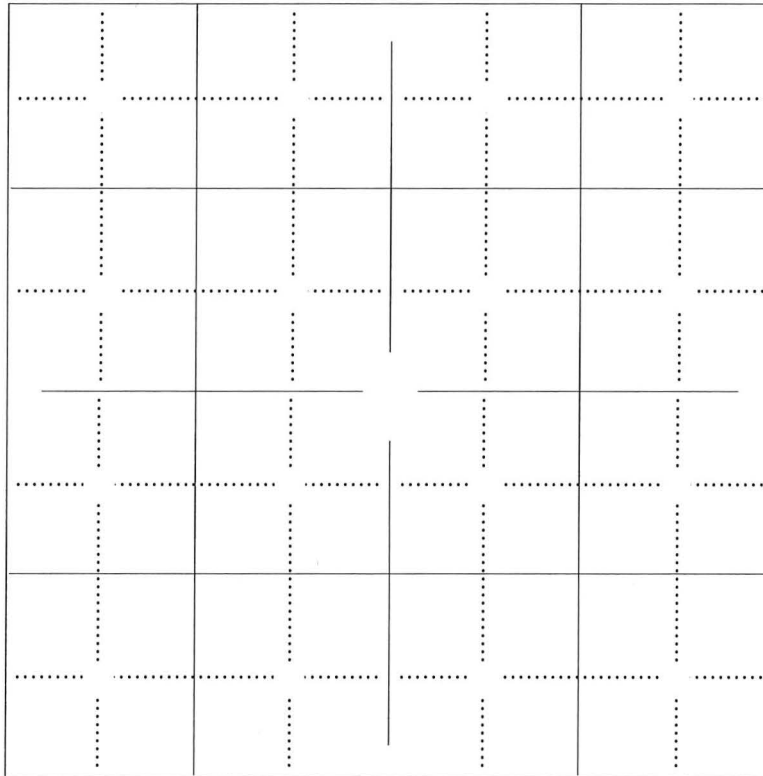
**Plat and Certificate of Injection Well Location and Surrounding Acreages**

Operator: Abercrombie Energy, LLC Location of Well: NW-SE-NE  
 Lease: Brown 1803 feet from ☒ N / ☐ S Line of Section  
 Well Number: 1-26 862 feet from ☒ E / ☐ W Line of Section  
 County: Seward Sec. 26 Twp. 33 S. R. 31 ☐ East ☒ West

**Plat**

Show the following information: applicant injection well, all producing wells, inactive wells, plugged wells, and other wells within a one-half mile radius, all lease boundaries, lease operators, unleased mineral rights owners, well numbers, and producing wells producing formation tops.

See Attachment



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applicant well

producing well

plugged injection well

D &amp; A well

other injection well

temporary abandoned well

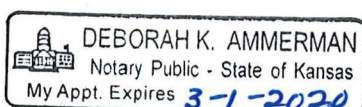
plugged producer

water supply well

The undersigned hereby certifies that he / she is a duly authorized agent for Abercrombie Energy, LLC, and that all of the information shown herein is true, complete and correct to the best of his / her knowledge.

Applicant or Duly Authorized Agent

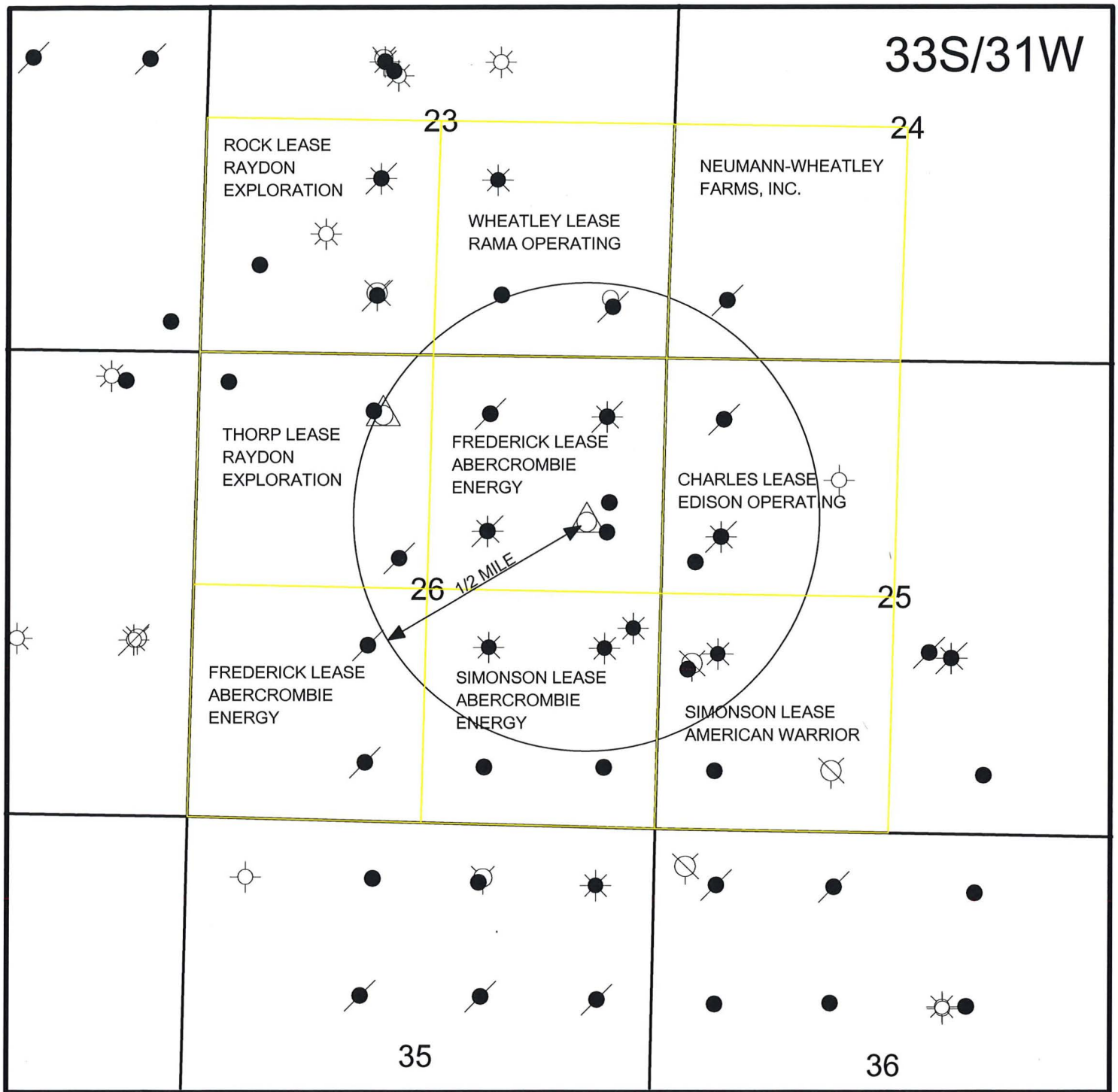
Subscribed and sworn before me this 18<sup>th</sup> day of October, 2018



Notary Public

My Commission Expires: 3-1-2020





## LEASEHOLD MAP

SEWARD COUNTY, KANSAS

MAP OF LEASES AND UNLEASED  
MINERALS WITHIN 1/2 MILE OF  
APPLICANT WELL

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**ABERCROMBIE**  
**ENERGY LLC**  
OIL & GAS LEASE OPERATIONS

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**Affidavit of Notice Served**Re: Application for: Abercrombie Energy, LLCWell Name: Venus Brown 1-26 Legal Location: NW-SE-NE Sec. 26-33S-31W

The undersigned hereby certifies that he / she is a duly authorized agent for the applicant, and that on the day \_\_\_\_\_ of \_\_\_\_\_, a true and correct copy of the application referenced above was delivered or mailed to the following parties:

Note: A copy of this affidavit must be served as a part of the application.

Name	Address (Attach additional sheets if necessary)
Raydon Exploration, Inc.	1601 NW Expy, Ste 1300, Oklahoma City, OK 73118
Rama Operating Company, Inc.	PO Box 159, Stafford, KS 67578
Neumann-Wheatley Farms, Inc.	60382 SE 80th Avenue, Isabel, KS 67065
Abercrombie Energy, LLC	10209 W Central Ave, Ste 2, Wichita, KS 67212
Edison Operating Company, LLC	8100 E 22nd St N, Building 1900, Wichita, KS 67226
American Warrior, Inc.	PO Box 399, Garden City, KS 67846
L.H. & Thais Brown	PO Box 126, Plains, KS 67869

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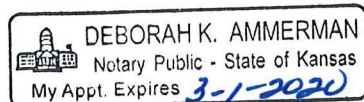
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WICHITA, KS

I further attest that notice of the filing of this application was published in the High Plains Daily Leader, the official county publication of Seward county. A copy of the affidavit of this publication is attached.

Signed this 18<sup>th</sup> day of October, 2018

[Signature]  
Applicant or Duly Authorized Agent

Subscribed and sworn to before me this 18<sup>th</sup> day of October, 2018



[Signature]  
Notary Public

My Commission Expires: 3-1-2020

Protests may be filed by any party having a valid interest in the application. Petitions for protests shall be in writing and shall clearly identify the name and address of the protestant and the title of the application. The petition shall include a clear and concise statement of the direct and substantial interest of the protestant in the proceedings, including the manner in which the protestant may be affected, and the nature, extent, character and grounds of the protest. Protestants shall serve the protest upon the applicant by mail or personal service at the same time or before the protestant files the protest with the Conservation Division. Protests must be filed within 30 days of the publication notice of the application.