

APPLICATION TO AMEND INJECTION PERMIT

- Salt Water Disposal
- Repressuring
- Other Enhanced Recovery

Permit Number: D-00801.0 4-ED

1/4 Sec. 5 Twp. 12 S. R. 17 East West

2663 Feet from North / South Section Line

666 Feet from East / West Section Line

Lease: Shutts B

Well #: 1 15-057-19,140-00-00

Ellis County, Kansas

Originally granted to: Phillips Petroleum Company

(All information above this line taken from the original permit)

Current Operator: License # 34888 Exp. 03/30/25 Contact Person: Zach Patterson

Company Name: Patterson Energy LLC CC & QINS: Roger L. Moses
(WORKING OPERATOR) (As listed on operator license)

Address: PO Box 400, Hays, KS. 67601 PO Box 385 Hays KS 67601
785-656-1729 mosesoil@reagan.com

Phone: 785-259-3717

Received by
Kansas Corporation Commission
DEC 16 2024
Conservation Division, Wichita, KS

It is requested that the (caption) (paragraph # B) of the original permit be amended as follows:

- A. Change the authorized injection pressure to: _____ psi maximum from the current permitted pressure of _____ psi.
- B. Change the authorized injection rate to: 10,000 bbl/day maximum from the current rate of 1200 bbl/day.
- C. Add (_____) or delete (_____) the following leases/facilities supplying produced saltwater or other fluids approved by the Conservation Division.

Company Name	Lease Name	Lease Description
1. _____	_____	_____
2. _____	_____	_____
3. _____	_____	_____
4. _____	_____	_____
5. _____	_____	_____
6. _____	_____	_____
7. _____	_____	_____
8. _____	_____	_____

(Roger L Moses)
Paied
\$100.00 Chk 1403
12/16/24

(Attach additional sheets if necessary)

- D. Change the permit by: (_____) add the following repressuring wells: _____ ;
(_____) change the injection formation; or (_____) change well construction; or (_____) other:

Offset Operators, Unleased Mineral Owners and Landowners

Form U-8

(Attach additional sheets if necessary)

Name Patterson Energy LLC Legal Description of Leasehold NE/4, Section 5-12s-17w, Ellis Cty, KS.

Oil Producers Inc of Kansas, NW/4, Sec 5-12s-17w Ellis Cty, KS. ,1710 Waterfront Pkwy, Wichita, KS. 67206-6603

Talon Group LLC, SE/4, Sec. 5-12s-17w & SW/4 Sec. 32-11s-17w, Ellis Cty, KS. PO Box 700, Hays, KS. 67601

Murfin Drilling Company, Inc, NW/4 Sec. 4-12s-17w, Ellis Cty, KS. 250 N. Water St., Ste 300, Wichita, KS. 67202

Patterson Energy LLC, NE/4 & SW/4, Sec 5-12s-17w. SE/4, Sec. 32-11s-17w. SW/4, Sec. 4-12s-17w, Ellis Cty, KS.

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

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Ragan L. Moses Agent
Applicant or Duly Authorized Agent

DEC 16 2024

Subscribed and sworn to before me this 13th day of December, 2024.

Conservation Division, Wichita, KS

J. Vaughn
Notary Public

My Commission Expires: 6/12/2028

JARED VAUGHN
Notary Public - State of Kansas
My Appt. Expires 6/12/2028

Instructions for Form U-8

Application to Amend Injection Permit

1. All requested changes in injection authority must be submitted with this form.
2. Complete the top portion, (side 1) of the form with the information requested for the pilot well, as shown on the original order or permit.
3. Complete the current operator information, listing the license number, current name and address, contact person and phone number.
4. Fill in the type of change or amendment desired. Leave blank any sections not applicable.
5. For amendments adding additional input wells to enhanced recovery permits, the following information must be submitted in addition to pages 1 and 2 of form U-8:
 - a) pages 1 and 2 of form U-1
 - b) an updated map, showing the new well(s) and all existing wells; page 4 of the form U-1.
 - c) a complete log of the well(s) to be added;
 - d) verification of cement (cement tickets, bond log, etc.)
6. Attach Affidavit of Notice Served, page 5 of form U-1.
7. This form must be signed by the applicant or an authorized agent. A notarization of the signature is required.
8. All applicable fees must accompany this application.
9. After confirming the Conservation Division's receipt of this application, publish notice of the application in the official county newspaper of record where the well(s) is located. Mail a copy of the affidavit to the Conservation Division upon receipt from the newspaper.

Mail to: KCC - Conservation Division, 266 N Main St, Ste 220, Wichita, Kansas 67202-1513

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
APPLICATION FOR INJECTION WELL**

Form U-1
August 2020
Form must be Typed
Form must be Signed
All blanks must be Filled

Disposal

Enhanced Recovery: Repressuring
 Waterflood
 Tertiary

Date: December 10, 2024

Operator License Number: 34888

Operator: Patterson Energy LLC

Address: PO Box 400
Hays, KS. 67601

Contact Person: Zach Patterson

Phone: 785-259-3717

Email: pattersonenergyllc@gmail.com

Permit Number: D-00801.0

API Number: 15-051-19140-00-00

Well Location

2663 feet from S / N Line of Section
666 feet from E / W Line of Section

Sec. 5 Twp. 12 S. R. 17 E W

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

Datum: NAD27 NAD83 WGS84

Lease Description: NE/4, Section 5-12s-17w, Ellis Cty, KS.

Lease Name: Shutts B Well Number: 1

Field Name: Bemis-Shutts

County: Ellis

Deepest Usable Water

Formation: Dakota

Depth to Bottom of Formation: 780'

Check One: Old Well Being Converted Newly Drilled Well Well to be Drilled

Surface Elevation: 2035 feet Well Total Depth: 4030 feet Plug Back Depth: _____ feet

Datum of top of injection formation: -1563 feet (reference mean sea level)

Recorded By
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Injection Formation Description:

Name	top / bottom	perf / open hole	depth
Arbuckle	3524 / 4030	Open-hole	at 3598 to 4030 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.	Patterson Energy LLC	Shutts B	NE/4, Sec. 5-12s-17w	Attached
2.	Patterson Energy LLC	Kessler	SE/4, Sec. 32-11s-17w	
3.	Patterson Energy LLC	Horn	NE/4, Sec. 5-12s-17w	

	Producing Formation	Strata Depth	Total Dissolved Solids (if available)
1.	L/KC	3333 to 3579 feet	_____ mg/l
2.	Arbuckle	3579 to 4030 feet	_____ mg/l
3.	_____	_____ to _____ feet	_____ mg/l

Maximum Requested Liquid Injection Rate: 10,000 bbls / day; or

Maximum Requested Gas Injection Rate: 0 scf / day. Type of Gas: _____

Maximum Requested Injection Pressure: 250 psig

Well Completion

Type: Tubing & Packer Packerless Tubingless

	Conductor	Surface	Intermediate	Production	Tubing
Size	N/A	8.625"	5.5"	4.5"	2.875"
Setting Depth		1265'	3598'	3590'	3541'
Amount of Cement		600sx	250sx	350sx	
Top of Cement		0'	2155'	300'	
Bottom of Cement		1265'	3598'	3590'	

If Alternate II cementing, complete the following:-

Perforations / D.V. Tool at _____ feet, cemented to _____ feet with _____ sx.
 Tubing: Type DL & Sealite Grade B
 Packer: Type Baker Locset Depth 3541'
 Annulus Corrosion Inhibitor: Type Treated water Concentration ~11%
 List Logs Enclosed: _____

Received by
Kansas Corporation Administration

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Well Sketch

(To sketch installation, darken the appropriate lines, indicate cement, and show depths.)

Conservation Division, Wichita, KS

