

19-CONS-3206-CUIC

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

APPLICATION FOR INJECTION WELL

Disposal

Enhanced Recovery: Repressuring

Waterflood

Tertiary

Date: 11/19/2018

Operator License Number: 35601 Exp. 07/30/19

Operator: Vulcan Resources, LLC

Address: 1102 N LENAPAH AVE

SKIATOOK, OK 74070

Rick Coady

Contact Person: Richard Xu

Phone: 918-521-3086

Email: Richard.xu@vulcan-resources.com

Permit Number: E-32,766 3-TB ✓

API Number: 15-031-23892

Well Location

NE - SE - NW - NE Sec. 2 Twp. 22 S. R. 13 E W

4561 feet from N / S Line of Section

1638 feet from E / W Line of Section

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

Datum: NAD27 NAD83 WGS84

Lease Description: _____

Lease Name: Hatch Well Number: I-1

Field Name: _____

County: Coffey

Deepest Usable Water

Formation: _____

Depth to Bottom of Formation: 150

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

Surface Elevation: 1139 feet Well Total Depth: 1605 feet Plug Back Depth: 1583 feet

Datum of top of injection formation: 1442 feet (reference mean sea level)

Injection Formation Description:

Name	top / bottom	perf / open hole	depth
Squirrel	1442 / 1448	Perf	at 1442 to 1448 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. Vulcan Resources, LLC	Hatch Lease	2-22S-13E	
2.			
3.			

Producing Formation	Strata Depth	Total Dissolved Solids (if available)
1. Squirrel	1442 to 1448 feet	_____ mg/l
2.	_____ to _____ feet	_____ mg/l
3.	_____ to _____ feet	_____ mg/l

Maximum Requested Liquid Injection Rate: 500 bbls / day; or

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

Maximum Requested Injection Pressure: 600 psig

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KCC CONSERVATION
PAID

DEC 04 2018

AMT. \$200.00

#16421

Well Completion

Type: Tubing & Packer Packerless Tubingless

	Conductor	Surface	Intermediate	Production	Tubing
Size		8.625		4.5	2.375
Setting Depth		40'		1583'	1425
Amount of Cement		14 sx		237 sx	
Top of Cement		0'		0'	
Bottom of Cement		40'		1583'	

If Alternate II cementing, complete the following:

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

Tubing: Type 2 3/8" 6.5# EUE - Seal Tite Grade J-55

Packer: Type "J" Packer - Seal Tite Depth 1435

Annulus Corrosion Inhibitor: Type National Guard 990 Concentration 2%

List Logs Enclosed: _____

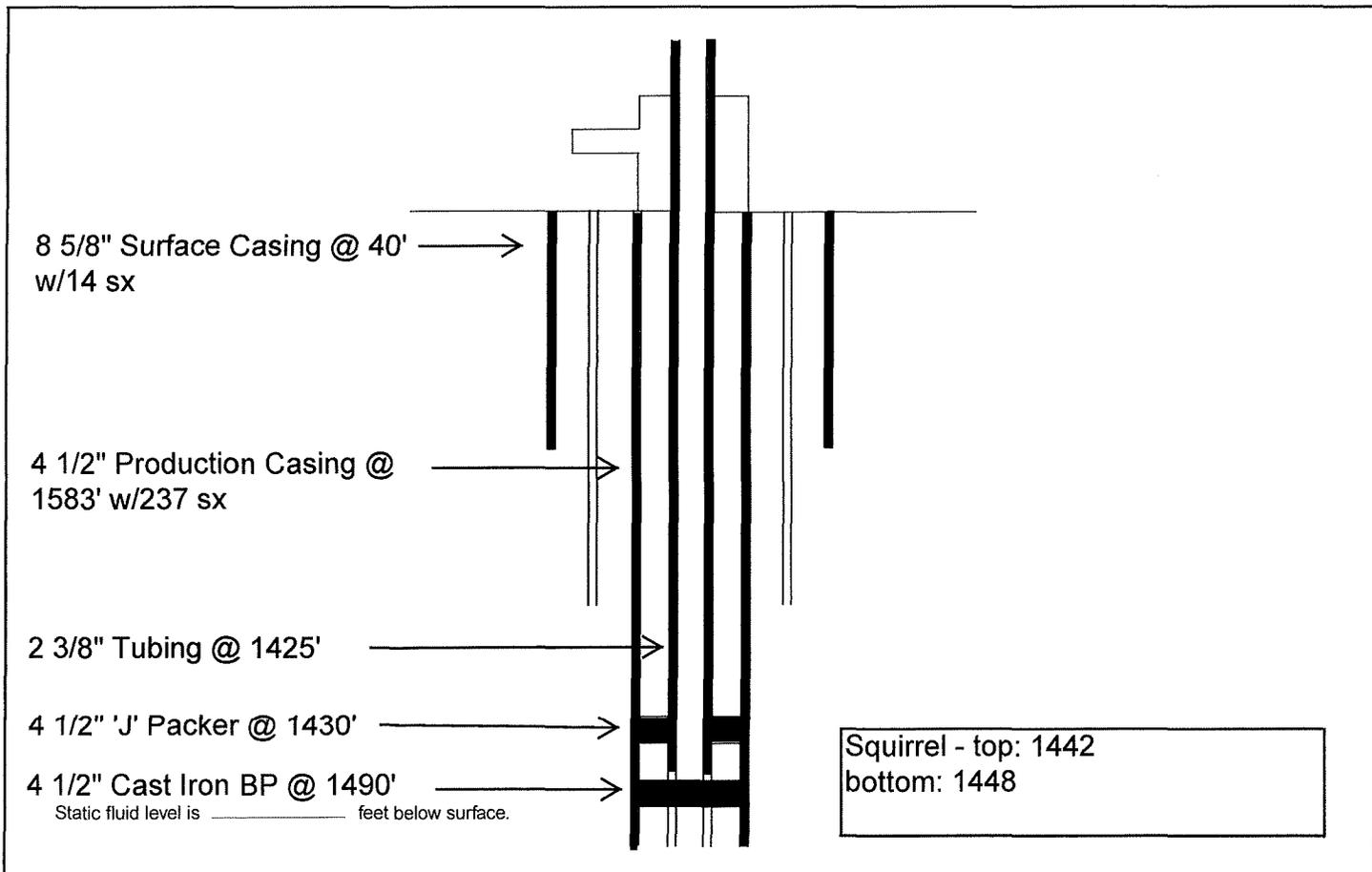
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Well Sketch

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

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Offset Operators, Unleased Mineral Owners and Landowners acreage

(Attach additional sheets if necessary)

Name:	Legal Description of Leasehold:
Clayton N. Wilkinson	S02, T22, R13, ACRES 241.5, FR NE4 & N2 SE4
Richard & Carole J Wilson Trust	S02, T22, R13, ACRES 198.4, FR NW4; N2 N2 SW4
Glen R & Debra K Isch Trust	S35, T21, R13, ACRES 156.9, SE4
Hursh Farms LLC	S35, T21, R13, ACRES 79, N2 SW4
Kara B Beyer Trust	S36, T21, R13, ACRES 78, S2 SW4
Larry D Paxson Trust	S01, T22, R13, ACRES 238, FR NW4 & N2 SW4
Trimble & Maclaskey Oil LLC	S02, T22, R13, ACRES 198.4, FR NW4; N2 N2 SW4
Richard & Carole J Wilson Trust	S35, T21, R13, ACRES 76.4, S2 SW4

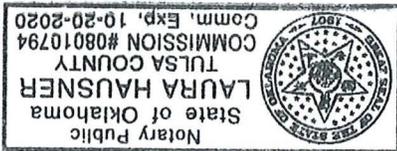
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I hereby certify that the statements made herein are true and correct to the best of my knowledge and belief.



[Signature]
Applicant or Duly Authorized Agent

Subscribed and sworn before me this 21st day of November, 2018



[Signature]
Notary Public

My Commission Expires: 10/20/2020

Instructions:

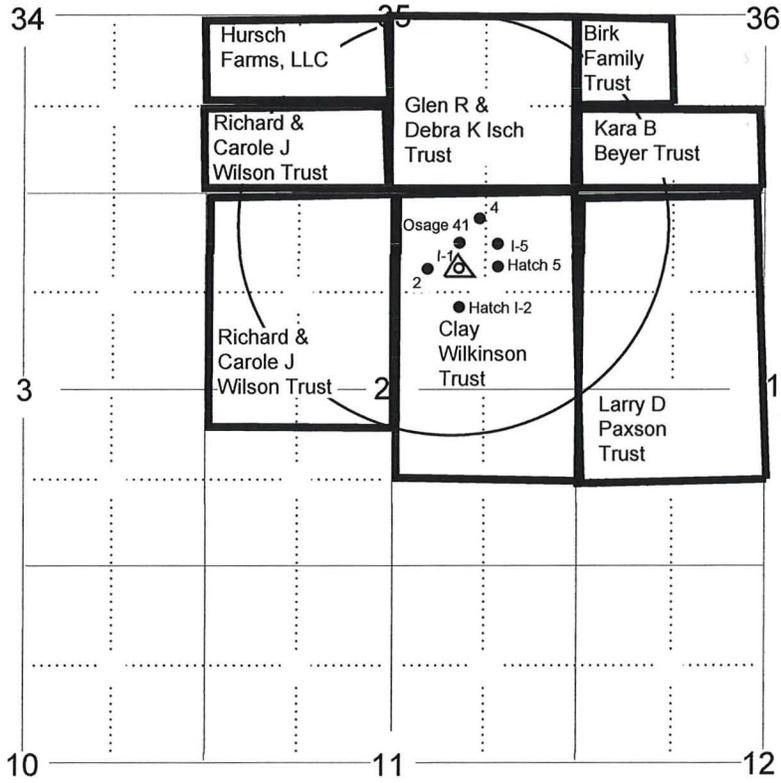
- Fully complete application, including page 4 (*plat map*) showing subject well and all known oil, gas and input wells, including wells being drilled, inactive wells, or dry holes, within one-half mile. Show lease names and operators or unleased mineral rights owners of all lands within one-half mile. Show well numbers and elevations of producing formation tops.
- Attach some type of log (*drillers log, electric log, etc.*).
- Attach some type of verification of cementing for surface casing, longstring, D.V. tool, perforations, etc. (*Cement ticket and job log, bond log, etc.*)
- Attach Affidavit of Notice.
- 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.
- The original and one copy of the application and all attachments shall be mailed to the State Corporation Commission, Conservation Division.
- 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.
- 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.**
- All application fees must accompany the application.

Plat and Certificate of Injection Well Location and Surrounding Acreages

Operator: Vulcan Resources, LLC Location of Well: NE SE NW NE Sec. 2-22-13E
 Lease: Hatch 4561 feet from N / S Line of Section
 Well Number: I-1 1638 feet from E / W Line of Section
 County: Coffey Sec. 2 Twp. 22 S. R. 13 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.



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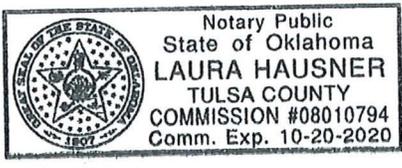
The undersigned hereby certifies that he / she is a duly authorized agent for Vulcan Resources, LLC, and that all of the information shown herein is true, complete and correct to the best of his / her knowledge.

[Signature]
 Applicant or Duly Authorized Agent

Subscribed and sworn before me this 24th day of November, 2018

[Signature]
 Notary Public

My Commission Expires: 10/20/2020



Affidavit of Notice Served

Re: Application for: Vulcan Resources, LLC

Well Name: Hatch I-1 Legal Location: NE SE NW NE Sec. 2-22-13E

The undersigned hereby certifies that he / she is a duly authorized agent for the applicant, and that on the day 26th of November, 2018, 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)
Clayton N. Wilkinson	195 10th RD SW, Gridley, KS 66852
Richard & Carole J Wilson Trust	915 Franklin ST, Burlington, KS 66839
Glen R & Debra K Isch Trust	795 Angust RD, Gridley, KS 66852
Hursh Farms LLC	12235 S Topeka AVE, Carbondale, KS 66414
Kara B Beyer Trust	310 Stuckey ST, Gridley, KS 66852
Larry D Paxson Trust	1364 Dobbin RD, Burlington, KS 66839
Trimble & Maclaskey Oil LLC	110 South ST, Gridley, KS 66852
Osage Operating, LLC	1102 N Lenapah Ave, Skiatook, OK 74070-4018

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I further attest that notice of the filing of this application was published in the Coffey County Republican, the official county publication of Coffey county. A copy of the affidavit of this publication is attached.

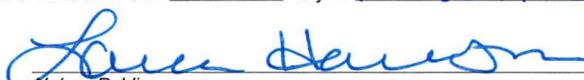
Signed this 26th day of November, 2018



Applicant or Duly Authorized Agent



Subscribed and sworn to before me this 26th day of November, 2018



Notary Public

My Commission Expires: 10/20/2020

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.