# Worksheet for an Operating Permit Knife River Corporation – Well #3 BVOP-0277

# Knife River Corportation seeks an Operating Permit for the purpose of:

## Industrial Use

Existing Well #3

Date Drilled: January 30, 2014

Tract Size: 333.4273 acres

Located at: N 30.61234072° W 96.47897341° 2.32 miles SW of the intersection of

Goodson Bend Road and Texas Hwy 47 in Brazos County

Beneficial Use: Industrial Use (Sand/Gravel Plant)

Aquifer of Origin: Sparta

Well Column: 6"

Rate of Production: 150 gpm

Max. Annual Production: 150 acre feet/year for each well

This application meets all of the specifications listed in BVGCD Rule 7.1 (c) regarding production based acreage. Below are the calculations verifying the applicant's compliance:

150 acre feet/year  $\times$  .62 = 93 gpm on an average annual basis

93 x 2'/aagpm for minor aguifer wells =186' radius from the wellhead

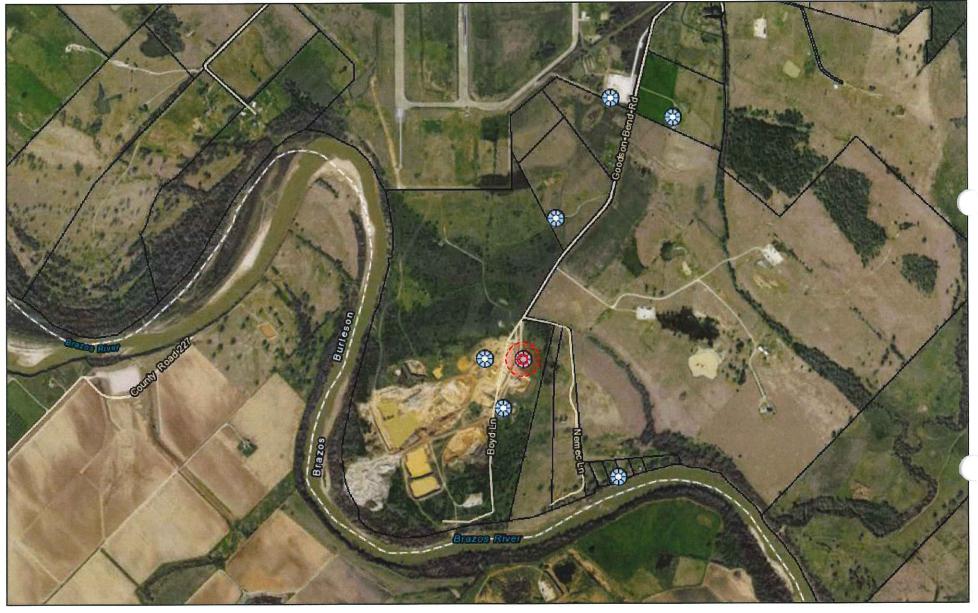
 $186' \times 186' \times 3.14 = 108,631.44$  square feet around the well

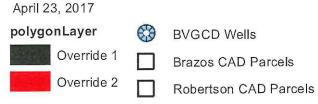
108,631.44/43,560 = 2.494 contiguous acres to be assigned to the well.

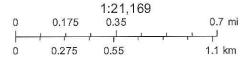
Application is administratively complete.

The recommendation of the General Manager is that the permit be approved.

Knife River Well #3 - Sparta - N 30.61234072 W 96.47897341 - 150 ac-ft/yr - 186' radius







Halff Associates Inc. Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors

Knife River Corporation South - BVOP-0277 - Sparta - 150 ac-ft/yr - 186' radius





polygonLayer

Override 1

polygonLayer

Brazos CAD Parcels

Robertson CAD Parcels

1:2,646 0.0225 0.045 0.09 mi 0.14 km 0.035 0.07

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Override 1

Well Report: Tracking #:353790

Page 1 of 2

STATE OF TEXAS WELL REPORT for Tracking #353790

Owner:

Halcon Resources

Owner Well #:

No Data

Address:

1000 Louisiana Ste 6700 Houston , TX 77002

Grid #:

59-29-1

Wall Location:

Ol'Sarge Frac

Gravel Plant, TX

Latitude:

30° 36' 44" N

Well County:

Brazos

Longitude:

098° 28' 44" W

Elevation:

No Data

GPS Brand Used:

Garmin

Type of Work:

New Well

Proposed Use:

industrial

Drilling Date:

Started: 1/30/2014

Campleted: 1/30/2014

Diameter of Hole:

Diameter: 12 1/4 in From Surface To 80 ft

Diameter: 9 7/8 In From 80 ft To 680 ft

Drilling Method:

Mud Rotary

Borehole

Gravel Packed From: (No Data) ft to (No Data) ft

Completion:

Gravel Pack Size: Other: 150# hole plug

Annylar Seal Data:

1st Interval: From 0 ft to 10 ft with 8 cement (#sacks and material) 2nd interval: No Data

3rd Interval: No Data Method Used: pour Cemented By: driller

Distance to Septic Field or other Concentrated Contamination: No Data

Distance to Property Line: No Data Method of Verification: No Data Approved by Variance: No Data

Surface Completion:

Surface Sleeve Installed

Water Level:

Static level: No Data Artesian flow: No Data

Packers:

paper 10'

Plugging Info;

Casing or Cement/Bentonite left in well; No Data

Type Of Pump:

Other: air Jetted

Depth to pump bowl: 240 ft

Well Tests:

Estimated

Yield: 175 GPM with 0 ft drawdown after 1 hour

Water Quality:

Type of Water: No Data Depth of Strata: 500 ft. Chemical Analysis Made: No

Did the driller knowingly penetrate any strata which contained undestrable constituents: No

Certification Data:

The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for

completion and resubmittal.

Well Report: Tracking #:353790

Page 2 of 2

Company Information: LTW Services, LP P.O. Box 1397

Kligore, TX 75663

Driller License Number: 58068

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Licensed Well Driller Signature: Micheal Ligon

Registered Driller

. . . .

Apprentice Signature: No Data

Apprentice

No Data

Registration Number:

Comments:

No Data

#### IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking #353790) on your written request.

Texas Department of Licensing & Regulation P.O. Box 12157
Austin, TX 78711
(512) 463-7880

#### DESC. & COLOR OF FORMATION MATERIAL

CASING, BLANK PIPE & WELL SCREEN DATA

From (ft) To (ft) Description 0-80 sand w/gravel 80-180 sand 180-340 clay 340-380 sand 380-480 clay 480-520 sand 520-580 clay 580-880 sand w/clay layers Dia. New/Used Type Setting From/To 10" new blank 0 to 80 sch40 6" new blank 0 to 580 sdr17 6" new slotted 580 to 680 .020

### Permit No. BV-OP-0277

# Operating Permit Issued By Direction of the Board of Directors of the Brazos Valley Groundwater Conservation District



This Operating Permit is granted to Knife River Corporation (Permittee) authorizing the Permittee to operate a water well known as Well #3 ("Well") at the location specified below within the Brazos Valley Groundwater Conservation District (District) for the beneficial purpose of producing water for Industrial use. Permittee is authorized to operate the Well located at N 30.61234072° and W 96.47897341° to produce water from the Sparta Aquifer at an annual maximum capacity not to exceed 150 GPM and a maximum annual production of 150 acre feet/year.

# **Operating Permit Term:**

- (a) An operating and drilling permit for a well or well site will automatically expire within three years from its issuance if the permitted well(s) has not been completed or is not significantly under development.
- (b) Unless specified otherwise by the Board or these Rules, operating permits are effective for five-year terms. At the end of each five-year term, the permit shall be renewed by the Board for an additional five-year term, upon submittal of a permit renewal application by the permit holder that provides adequate evidence of continued beneficial use for the permitted amount of water withdrawal. The District shall send notices to permit holders that contain the permit renewal applications, prior to permit expirations.
- (c) The District may amend or revoke an operating permit at any time if there is evidence of:
  - (1) the owner or operator of the well or well system has operated in violation of their permit, District Rules, or Chapter 36 of the Texas Water Code; or
  - (2) a change in the permit is required to prevent waste and achieve water conservation, minimize as far as practicable the drawdown of the water table or reduction of artesian pressure, lessen interference between wells, or control and prevent subsidence; or
  - (3) The permitted well(s) has not been completed, is not significantly under construction; or no significant progress is being made toward construction.

This permit is issued and effective as of May 11, 2017.

Special Provisions/Notes: None

This Permit is granted subject to these Rules, orders of the Board, and the laws of the State of Texas. In addition to any special provisions or other requirements incorporated into the permit issued by the District.

- (1) This Permit is granted in accordance with provisions of the Rules of the District, including amendments, and acceptance of this Permit constitutes an acknowledgment and agreement that Permittee will comply with the Rules of the District.
- (2) This Permit confers only the right to operate the permitted well under the provisions of the District Rules and its terms may be modified or amended pursuant to the provisions of those Rules. To protect the permit holder from the illegal use of a new landowner, within ten (10) days after the date of sale of property containing a well having been issued an operating permit, the operating permit holder must notify the District in writing of the name of the new owner. Any person who becomes the owner of a currently permitted well must, within forty-five (45) calendar days from the date of the change in ownership, file an application for a permit amendment to affect a transfer of the permit.
- (3) The operation of the well for the authorized purposes must be conducted in a non-wasteful manner.
- (4) All groundwater production from non-exempt wells in the District is required to be metered, except for the groundwater produced from wells in the Brazos River Alluvium aquifer. The District maintains the discretion to require meters on wells in the Brazos River Alluvium aquifer. Permittee shall maintain records of withdrawal on the property where the well is located or at its business office, and shall make those records available to the District for inspection. The Permittee shall submit complete, accurate, and timely metered pumpage and transport reports to the District annually, as requested by the District, no later than February first (1<sup>st</sup>) of each year.
- (5) The well site must be accessible to District representatives for inspection, and Permittee agrees to cooperate fully in any reasonable inspection of the well and well site by the District representatives.
- (6) The application pursuant to which this Permit has been issued is incorporated in this Permit, and this Permit is granted on the basis of and contingent upon the accuracy of the information supplied in that application. A finding that false information has been supplied is grounds for immediate revocation of the permit.
- (7) Violation of this Permit's terms, conditions, requirements, or special provisions, including pumping amounts in excess of authorized withdrawal, is punishable by civil penalties as provided by the District Rule 15.3, as well as revocation of the permit.
- (8) Permittee will use reasonable diligence to protect groundwater quality and will follow well-plugging guidelines at the time of well closure.

The issuance of this Permit does not grant to Permittee the right to use any private property, or any public property, for the production or conveyance of water. Neither does this permit authorize the invasion of any personal rights nor the violation of any federal, state, or local laws, rules or regulations. Further, the District makes no representations and shall have no responsibility with respect to the availability or quality of water authorized to be produced under this permit.

Brazos Valley Groundwater Conservation District	
By:	
Alan M. Day, General Manager	Date