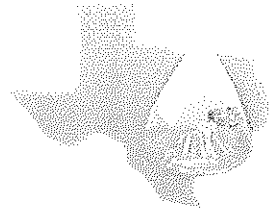


Wells permitted pursuant to District Rule 8.3(j) - June, 2015					
Permit #	Permittee	Aquifer	Permitted Amt.	Type of Use	Date
BVOP-0218	Hill Ranch (Hill-Milburn WW#1)	Sparta	150.00	Industrial	6/2/2015
BVDO-0192	Hawkwood Energy (McGuire WW #1)	Sparta	150.00	Industrial	6/5/2015
BVDO-0193	Hawkwood Energy (McGuire WW #1)	Sparta	150.00	Industrial	6/5/2015
BVOP-0219	Covey Park Operating, LLC (Charlene #3)	Queen City	0.78	Industrial	6/16/2015
BVOP-0220	Covey Park Operating, LLC (RL Dodds, Jr. #3)	Carrizo	0.78	Industrial	6/30/2015
BVDO-0194	**Kent Moore - Well #2	BRA	0.00	Agricultural	6/30/2015
			451.56		
** - No new water permitted. Amended BVOP-0180 from 122 ac-ft/yr to 40 ac-ft/yr. BVDO-0194 was permitted for 82 ac-ft/yr.					
Wells - 6					
Sparta - 450 ac-ft					
Queen City - .78 ac-ft					
Carrizo - .78 ac-ft					
BRA - 0 ac-ft					
Total Acre Feet - 451.56 ac-ft					

Wells permitted pursuant to District Rule 8.3(j) - July, 2015					
<u>Permit #</u>	<u>Permittee</u>	<u>Aquifer</u>	<u>Permitted Amt.</u>	<u>Type of Use</u>	<u>Date</u>
BVOP-0221	Rosewood Resources, Inc.	Sparta	9.00	Industrial	7/8/2015
BVDO-0195	Mike Stratta	BRA	53.00	Agricultural	7/21/2015
BVOP-0222	Anadarko (Lightsey-Capps 1)	Queen City	4.00	Industrial	7/21/2015
BVDO-0197	Hawkwood Energy (Stawnicz WW #1)	Sparta	150.00	Industrial	7/23/2015
			216.00		
Wells - 4					
Sparta - 159					
BRA - 53					
Queen City - 4					
Total Acre Feet - 216 ac-ft					

Permit No. BV-OP-0218

Operating Permit
Issued by the General Manager of the
Brazos Valley Groundwater Conservation District
Pursuant to District Rule 8.3(j)



This **Operating Permit** is granted to **Hill Ranch** (Permittee) authorizing the Permittee to operate a water well known as **Hill-Milburn WW#1** ("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 30.91398085° and W 96.287596754°** to produce water from the **Sparta Aquifer** at an annual maximum capacity not to exceed **175 GPM** and a maximum annual production of **150 acre feet/year**.

Operating Permit Term:

- (a) The operating permit is effective for a one-year term. At the end of the one-year term, the permit may be renewed by the General Manager for an additional 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.
- (b) 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 June 2, 2015.

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 as requested.
- (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:  6-2-15
Alan M. Day, General Manager Date

Worksheet for Operating Permit
Hill Ranch – Hill Milburn WW#1
BVOP-0218

Hill Ranch seeks an Operating Permit for the purpose of:

- **Industrial Use –Water for hydraulic fracturing**

Existing Well Hill-Milburn WW#1

Located at: N 30.91398085° W 96.287596754° 1.53 miles NNW of the intersection of FM 974 and Edge School House Road in Brazos County.

Beneficial Use: **Industrial** – Use for hydraulic fracturing

Aquifer of Origin: **Sparta**

Well Column: 6”

Rate of Production: **175 gpm**

Max. Annual Production: **1 acre feet/year**

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:

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

$93 \times 2'/\text{gpm}$ for minor aquifer wells = 186' radius from the wellhead

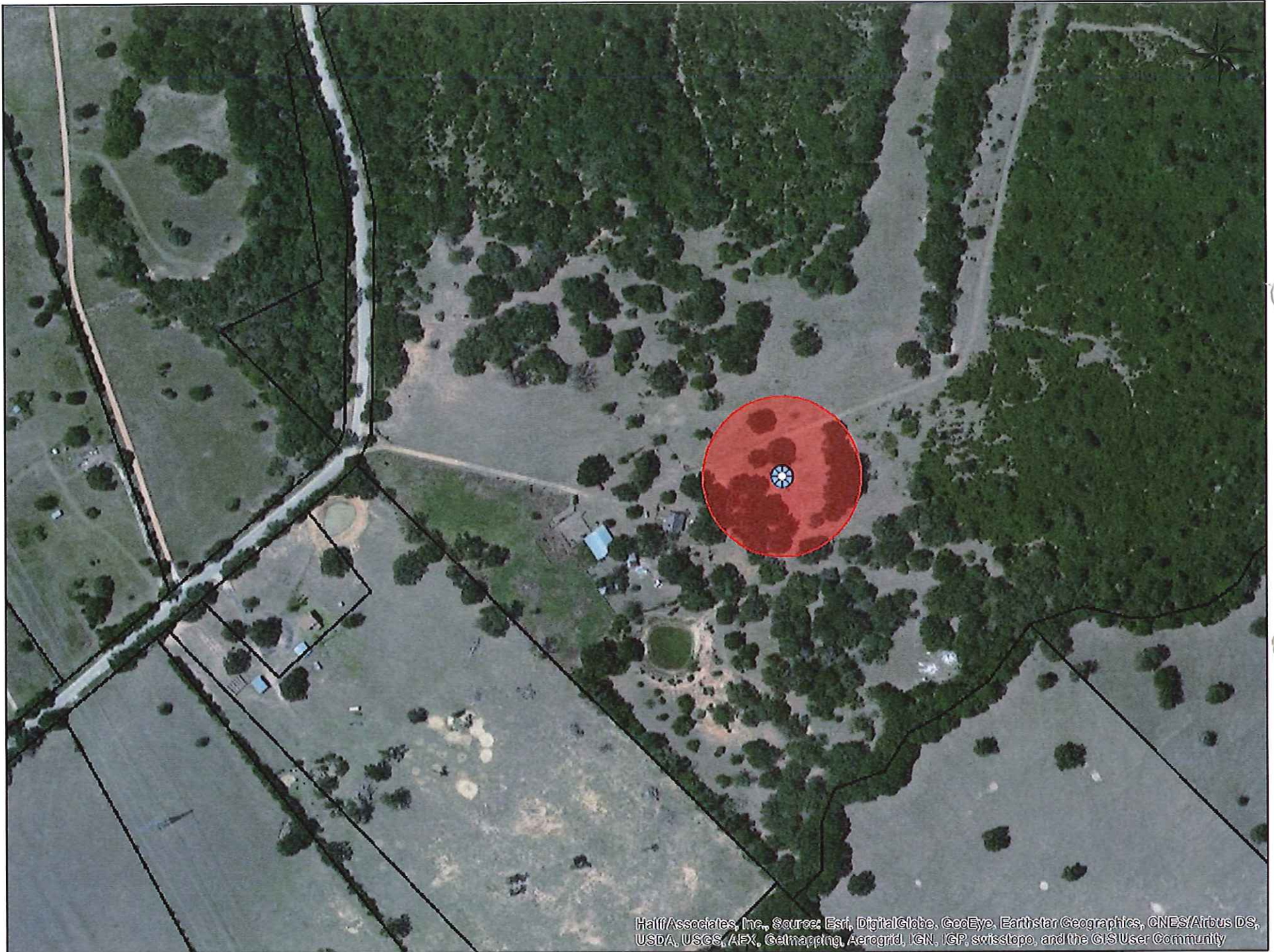
$186' \times 186' \times 3.14 = 108,631$ square feet around the well

$108,631/43,560 = 2.494$ **contiguous acres to be assigned to the well.**

The footprint of the well lies entirely within the property controlled by the applicant.

This application is administratively complete.

The permit was issued by the General Manager on 6-2-15 pursuant to District Rule 8.3(j).



Permit No. BV-DO-0192

Operating Permit
Issued by the General Manager of the
Brazos Valley Groundwater Conservation District
Pursuant to District Rule 8.3(j)



This **Operating Permit** is granted to **Hawkwood Energy Operating, LLC** (Permittee) authorizing the Permittee to operate a water well known as **McGuire WW #1** ("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 30.908300° and W 96.247378°** 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) The operating permit is effective for a one-year term. At the end of the one-year term, the permit may be renewed by the General Manager for an additional 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.
- (b) 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 June 5, 2015.

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 as requested.
- (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

6-5-15

Date

Worksheet for Operating Permit
Hawkwood Energy Operating, LLC McGuire #1
BVDO-0192

Hawkwood Energy Operating, LLC seeks an Operating Permit for the purpose of:

- **Industrial Use –Water for hydraulic fracturing**

Proposed Well McGuire #1

Located at: N 30.910444° W 96.245581° 1.57 miles NE of the intersection of FM 974 and Wilson Pasture Road in Brazos County.

Beneficial Use: **Industrial** – Use for hydraulic fracturing

Aquifer of Origin: **Sparta**

Well Column: **6”**

Rate of Production: **150 gpm**

Max. Annual Production: **150 acre feet/year**

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:

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

$93 \times 2'/\text{gpm}$ for Sparta wells = 186' radius from the wellhead

$186' \times 186' \times 3.14 = 108,631$ square feet around the well

$108,631/43,560 = 2.494$ contiguous acres to be assigned to the well.

The footprint of the well lies entirely within the property controlled by the applicant.

This application is administratively complete.

The permit was issued by the General Manager on 6-5-15 pursuant to District Rule 8.3(j).



Permit No. BV-DO-0193

Operating Permit
Issued by the General Manager of the
Brazos Valley Groundwater Conservation District
Pursuant to District Rule 8.3(j)



This **Operating Permit** is granted to **Hawkwood Energy Operating, LLC** (Permittee) authorizing the Permittee to operate a water well known as **McGuire WW #2** ("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 30.910444° and W 96.245581°** 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) The operating permit is effective for a one-year term. At the end of the one-year term, the permit may be renewed by the General Manager for an additional 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.
- (b) 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 June 5, 2015.

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 as requested.
- (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

6-5-15
Date

Worksheet for Operating Permit
Hawkwood Energy Operating, LLC McGuire #1
BVDO-0192

Hawkwood Energy Operating, LLC seeks an Operating Permit for the purpose of:

- **Industrial Use –Water for hydraulic fracturing**

Proposed Well McGuire #1

Located at: N 30.910444° W 96.245581° 1.57 miles NE of the intersection of FM 974 and Wilson Pasture Road in Brazos County.

Beneficial Use: **Industrial** – Use for hydraulic fracturing

Aquifer of Origin: **Sparta**

Well Column: **6"**

Rate of Production: **150 gpm**

Max. Annual Production: **150 acre feet/year**

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:

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

$93 \times 2'/\text{gpm}$ for Sparta wells =186' radius from the wellhead

$186' \times 186' \times 3.14 = 108,631$ square feet around the well

$108,631/43,560 = \mathbf{2.494}$ contiguous acres to be assigned to the well.

The footprint of the well lies entirely within the property controlled by the applicant.

This application is administratively complete.

The permit was issued by the General Manager on 6-5-15 pursuant to District Rule 8.3(j).

Worksheet for Operating Permit
Hawkwood Energy Operating, LLC McGuire #2
BVDO-0193

Hawkwood Energy Operating, LLC seeks an Operating Permit for the purpose of:

- **Industrial Use –Water for hydraulic fracturing**

Proposed Well McGuire #2

Located at: N 30.910444° W 96.245581° 1.76 miles NE of the intersection of FM 974 and Wilson Pasture Road in Brazos County.

Beneficial Use: **Industrial** – Use for hydraulic fracturing

Aquifer of Origin: **Sparta**

Well Column: **6”**

Rate of Production: **150 gpm**

Max. Annual Production: **150 acre feet/year**

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:

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

$93 \times 2'/\text{gpm}$ for Sparta wells = 186' radius from the wellhead

$186' \times 186' \times 3.14 = 108,631$ square feet around the well

$108,631/43,560 = 2.494$ **contiguous acres to be assigned to the well.**

The footprint of the well lies entirely within the property controlled by the applicant.

This application is administratively complete.

The permit was issued by the General Manager on 6-5-15 pursuant to District Rule 8.3(j).



McGuire WWH



Permit No. BV-OP-0219

Operating Permit
Issued by the General Manager of the
Brazos Valley Groundwater Conservation District
Pursuant to District Rule 8.3(j)



This **Operating Permit** is granted to **Covey Park Operating, LLC** (Permittee) authorizing the Permittee to operate a water well known as **Charlene #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 31.015191° and W 96.326713°** to produce water from the **Queen City Aquifer** at an annual maximum capacity not to exceed **80 GPM** and a maximum annual production of **.78 acre feet/year**.

Operating Permit Term:

- (a) The operating permit is effective for a one-year term. At the end of the one-year term, the permit may be renewed by the General Manager for an additional 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.
- (b) 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 June 16, 2015.

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 as requested.
- (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

6-16-15

Date

Worksheet for Operating Permit
Covey Park Operating, LLC – Charlene #3
BVOP-0219

Covey Park Operating, LLC seeks an Operating Permit for the purpose of:

- **Industrial Use –Water for hydraulic fracturing**

Existing Well Charlene #3

Located at: N 31.051191° W 96.326713° 0.18 miles E of the intersection of FM 1940 and Clyde Acord Road in Robertson County.

Beneficial Use: **Industrial** – Use for hydraulic fracturing

Aquifer of Origin: **Carrizo**

Well Column: 4”

Rate of Production: **80 gpm**

Max. Annual Production: **.78 acre feet/year**

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:

$.78 \text{ acre feet/year} \times .62 = .484 \text{ gpm}$ on an average annual basis

$.484 \times 2'/\text{gpm}$ for minor aquifer wells = 0.97' radius from the wellhead

$0.97' \times 0.97' \times 3.14 = 2.95$ square feet around the well

$2.95/43,560 = 0.000068$ **contiguous acres to be assigned to the well.**

The footprint of the well lies entirely within the property controlled by the applicant.

This application is administratively complete.

The permit was issued by the General Manager on 6-16-15 pursuant to District Rule 8.3(j).



Charlene #3
Covey Park

Permit No. BV-OP-0220

Operating Permit
Issued by the General Manager of the
Brazos Valley Groundwater Conservation District
Pursuant to District Rule 8.3(j)



This **Operating Permit** is granted to **Covey Park Operating, LLC** (Permittee) authorizing the Permittee to operate a water well known as **RL Dodds, Jr. #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 31.063039° and W 96.365924°** to produce water from the **Carrizo Aquifer** at an annual maximum capacity not to exceed **70 GPM** and a maximum annual production of **.78 acre feet/year**.

Operating Permit Term:

- (a) The operating permit is effective for a one-year term. At the end of the one-year term, the permit may be renewed by the General Manager for an additional 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.
- (b) 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 June 30, 2015.

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 as requested.
- (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

6-30-15
Date

Worksheet for Operating Permit
Covey Park Operating, LLC – RL Dodds, Jr. #3
BVOP-0220

Covey Park Operating, LLC seeks an Operating Permit for the purpose of:

- **Industrial Use –Water for hydraulic fracturing**

Existing Well RL Dodds, Jr. #3

Located at: N 31.063039° W 96.365924° 0.91 miles NW of the intersection of FM 1940 and Gourd Neck Loop in Robertson County.

Beneficial Use: **Industrial** – Use for hydraulic fracturing

Aquifer of Origin: **Carrizo**

Well Column: 4”

Rate of Production: **70 gpm**

Max. Annual Production: **.78 acre feet/year**

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:

$.78 \text{ acre feet/year} \times .62 = .484 \text{ gpm}$ on an average annual basis

$.484 \times 2'/\text{gpm}$ for minor aquifer wells = 0.97' radius from the wellhead

$0.97' \times 0.97' \times 3.14 = 2.95$ square feet around the well

$2.95/43,560 = 0.000068$ **contiguous acres to be assigned to the well.**

The footprint of the well lies entirely within the property controlled by the applicant.

This application is administratively complete.

The permit was issued by the General Manager on 6-30-15 pursuant to District Rule 8.3(j).



RL Dodds Jr. #3
Covey Park

Permit No. BV-DO-0194

**Operating Permit
Issued by the General Manager of the
Brazos Valley Groundwater Conservation District
Pursuant to District Rule 8.3(j)**



This **Operating Permit** is granted to **Kent Moore** (Permittee) authorizing the Permittee to operate a water well known as **Well #2** ("Well") at the location specified below within the Brazos Valley Groundwater Conservation District (District) for the beneficial purpose of producing water for **Agricultural Irrigation** use. Permittee is authorized to operate the Well located at **N 30.541378° and W 96.407122°** to produce water from the **Brazos River Alluvium Aquifer** at an annual maximum capacity not to exceed **400 GPM** and a maximum annual production of **82 acre feet/year**.

Operating Permit Term:

- (a) The operating permit is effective for a one-year term. At the end of the one-year term, the permit may be renewed by the General Manager for an additional 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.
- (b) 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 June 30, 2015.

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 as requested.
- (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

6-30-15

Date

Worksheet for a Drilling/Operating Permit

Kent Moore Well #2

Kent Moore seeks a Drilling/Operating Permit for the purpose of:

- **Agricultural Irrigation - 61 acres field crops**

Proposed Well #2

Located at: N 30.541378° W 96.407122° 1.70 miles S of the intersection of FM 60 and Kemp Road in Brazos County

Beneficial Use: **Agricultural Irrigation**

Aquifer of Origin: **Brazos River Alluvium**

Well Column: **15"**

Rate of Production: **400 gpm**

Max. Annual Production: **82 acre feet/year.**

Application is administratively complete.

The permit was issued by the General Manager on 6-30-15 pursuant to District Rule 8.3(j).

Permit No. BV-OP-0221

**Operating Permit
Issued by the General Manager of the
Brazos Valley Groundwater Conservation District
Pursuant to District Rule 8.3(j)**



This **Operating Permit** is granted to **Rosewood Resources, Inc.** (Permittee) authorizing the Permittee to operate a water well known as **Lois Williams 1-H** ("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 30.933362° and W 96.238675°** to produce water from the **Sparta Aquifer** at an annual maximum capacity not to exceed **175 GPM** and a maximum annual production of **9 acre feet/year**.

Operating Permit Term:

- (a) The operating permit is effective for a one-year term. At the end of the one-year term, the permit may be renewed by the General Manager for an additional 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.
- (b) 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 July 8, 2015.

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 as requested.
- (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

7-8-15

Date

Worksheet for Operating Permit
Rosewood Resources, Inc. – Lois Williams 1-H
BVOP-0221

Rosewood Resources, Inc. seeks an Operating Permit for the purpose of:

- **Industrial Use –Water for hydraulic fracturing**

Existing Well Lois Williams 1-H

Located at: N 30.933362° W 96.238675° 2.57 miles NW of the intersection of OSR and Macey Road in Brazos County.

Beneficial Use: **Industrial** – Use for hydraulic fracturing

Aquifer of Origin: **Sparta**

Well Column: 6”

Rate of Production: **175 gpm**

Max. Annual Production: **9 acre feet/year**

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:

$9 \text{ acre feet/year} \times .62 = 5.58 \text{ gpm}$ on an average annual basis

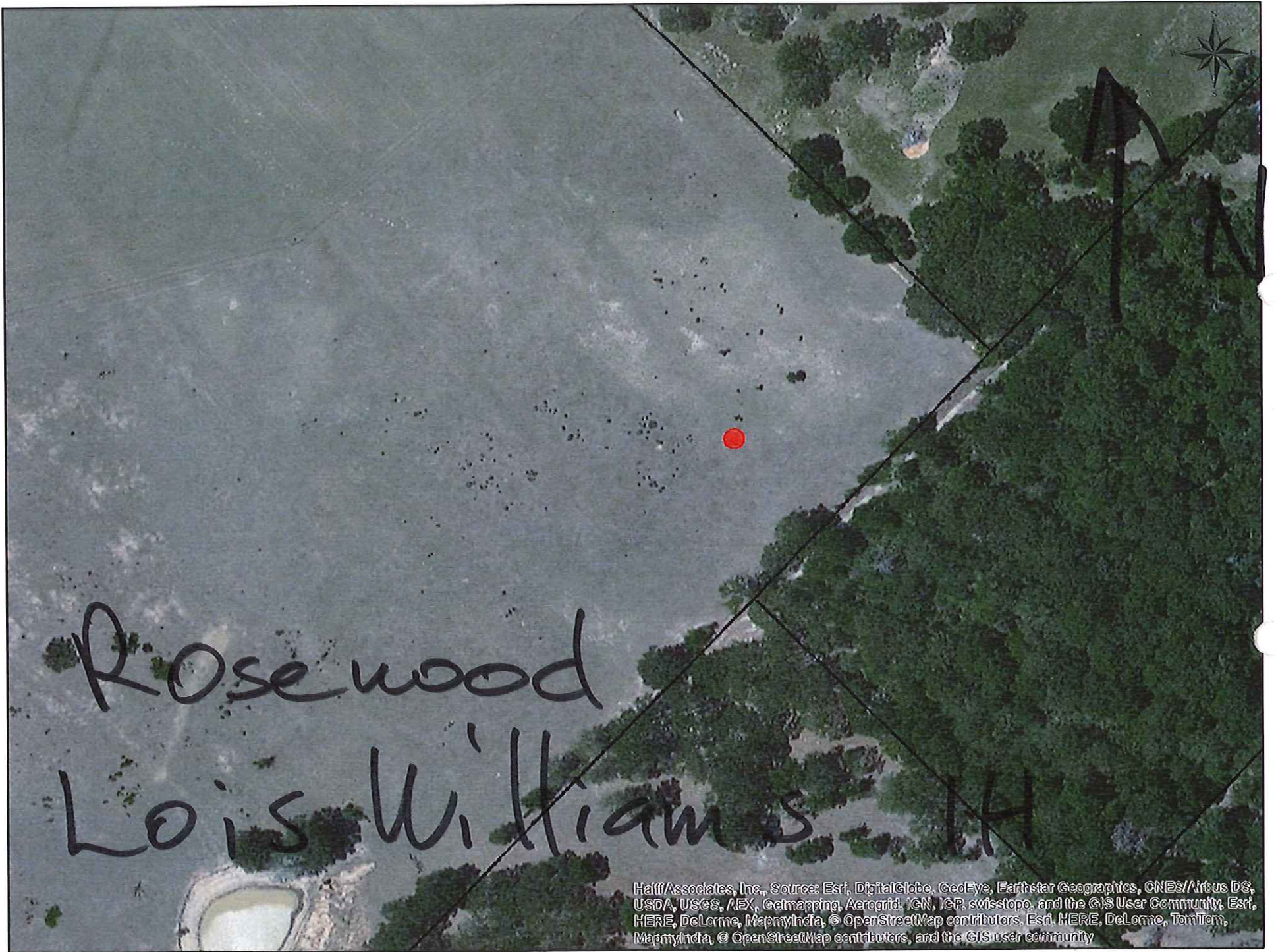
$5.58 \times 2'/\text{gpm}$ for minor aquifer wells = 11.16' radius from the wellhead

$11.16' \times 11.16' \times 3.14 = 391$ square feet around the well

$391/43,560 = 0.009$ **contiguous acres to be assigned to the well.**

The footprint of the well lies entirely within the property controlled by the applicant.

This application is administratively complete. The permit was issued by the General Manager on 7-8-15 pursuant to District Rule 8.3(j).



Rosewood
Lois Williams

Haifi/Associates, Inc., Sources: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community, Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, Esri, HERE, DeLorme, TomTom, MapmyIndia, © OpenStreetMap contributors, and the GIS user community

Permit No. BV-DO-0195

Operating Permit
Issued by the General Manager of the
Brazos Valley Groundwater Conservation District
Pursuant to District Rule 8.3(j)



This **Operating Permit** is granted to **Mike Stratta** (Permittee) authorizing the Permittee to operate a water well known as **Well #1** ("Well") at the location specified below within the Brazos Valley Groundwater Conservation District (District) for the beneficial purpose of producing water for **Agricultural** use. Permittee is authorized to operate the Well located at **N 30.840894° and W 96.634396°** to produce water from the **Brazos River Alluvium Aquifer** at an annual maximum capacity not to exceed **600 GPM** and a maximum annual production of **53 acre feet/year**.

Operating Permit Term:

- (a) The operating permit is effective for a one-year term. At the end of the one-year term, the permit may be renewed by the General Manager for an additional 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.
- (b) 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 July 21, 2015.

Special Provisions/Notes:

The production from the Well may be aggregated with production from Permittee's Historic Use permit (BVHU-0195) so that the combined permitted amount from wells may be pumped from either well, or split between the wells, as circumstances may require as allowed by District Rule. The production amount is in addition to the 38 acre feet/year granted under Historic Use Permit BVHU-0195 that is also in effect, totaling a maximum annual production for this well under both permits to be 91 acre feet/year.

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 as requested.
- (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

7-21-15

Date

Worksheet for a Drilling/Operating Permit

Mike Stratta Well #1

Mike Stratta seeks a Drilling/Operating Permit for the purpose of:

- **Agricultural Use – Irrigation of 45.5 acres of field crops**

Proposed Well #1

Located at: N 30.840894° W 96.634396° 0.55 miles NE of the intersection of FM 1644 and US Hwy 79 in Robertson County

Beneficial Use: **Current – Irrigation on 45.5 acres of field crops**

Aquifer of Origin: **Brazos River Alluvium**

Well Column: **16”**

Rate of Production: **600 gpm**

Max. Annual Production: **53 acre feet/year.**

The permit holder has asked that Historic Use Permit BVHU-0194 be relenquished. A small portion of the total property holdings which contains the well is being sold to Union Pacific Railroad. Having relinquished the existing permit, permitting of the new well for the remaining property (45.5 acres) can proceed.

The well will be in aggregate with the permit holder's other Historic Use Permit BVHU-0195 in the amount of 38 acre feet/year. Total maximum annual production from the two wells in not to exceed 91 acre feet/year.

Application is administratively complete.

The permit was issued by the General Manager on 7-21-15 pursuant to District Rule 8.3(j).

Permit No. BV-OP-0222

**Operating Permit
Issued by the General Manager of the
Brazos Valley Groundwater Conservation District
Pursuant to District Rule 8.3(j)**



This **Operating Permit** is granted to **Anadarko Petroleum** (Permittee) authorizing the Permittee to operate a water well known as **Lightsey-Capps 1** ("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. 751152° and W 96.486926°** to produce water from the **Queen City Aquifer** at an annual maximum capacity not to exceed **150 GPM** and a maximum annual production of **4 acre feet/year**.

Operating Permit Term:

- (a) The operating permit is effective for a one-year term. At the end of the one-year term, the permit may be renewed by the General Manager for an additional 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.
- (b) 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 July 21, 2015:

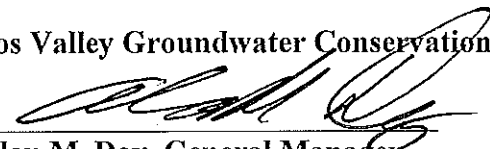
Special Provisions/Notes: None

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 as requested.
- (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

7-21-15
Date

Worksheet for Operating Permit
Anadarko Petroleum Lightsey-Capps 1
BVOP-0222

Anadarko Petroleum seeks an Operating Permit for the purpose of:

- **Industrial Use –Water for hydraulic fracturing**

Existing Well Lightsey-Capps 1

Located at: N 30.751152° W 96.46926° 0.29 miles W of the intersection of Old Hearne Road and Bowman Henry Road in Robertson County.

Beneficial Use: **Industrial** – Use for hydraulic fracturing

Aquifer of Origin: **Queen City**

Well Column: **6"**

Rate of Production: **150 gpm**

Max. Annual Production: **4 acre feet/year**

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:

$4 \text{ acre feet/year} \times .62 = 2.5 \text{ gpm}$ on an average annual basis

$2.5 \times 2'/\text{gpm}$ for minor aquifer wells =5' radius from the wellhead

$5' \times 5' \times 3.14 = 78.5$ square feet around the well

$3,018/43,560 = .002$ **contiguous acres to be assigned to the well.**

The foot applicant print of the well lies entirely within the property controlled by the permit holder.

This application is administratively complete.

The permit was issued by the General Manager on 7-21-15 pursuant to District Rule 8.3(j).



Permit No. BV-DO-0197

**Operating Permit
Issued by the General Manager of the
Brazos Valley Groundwater Conservation District
Pursuant to District Rule 8.3(j)**



This **Operating Permit** is granted to **Hawkwood Energy Operating, LLC** (Permittee) authorizing the Permittee to operate a water well known as **Stawnicz WW #1** ("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 30.911856° and W 96.347403°** 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) The operating permit is effective for a one-year term. At the end of the one-year term, the permit may be renewed by the General Manager for an additional 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.
- (b) 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 July 23, 2015.

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 as requested.
- (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

7-23-15

Date

Worksheet for Operating Permit
Hawkwood Energy Operating, LLC Stawnicz WW #1
BVDO-0197

Hawkwood Energy Operating, LLC seeks an Operating Permit for the purpose of:

- **Industrial Use –Water for hydraulic fracturing**

Proposed Well - Stawnicz WW #1

Located at: N 30.911856° W 96.347403° 2.44 miles NE of the intersection of FM 46 and OSR in Brazos County.

Beneficial Use: **Industrial** – Use for hydraulic fracturing

Aquifer of Origin: **Sparta**

Well Column: **6"**

Rate of Production: **150 gpm**

Max. Annual Production: **150 acre feet/year**

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:

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

$93 \times 2' \text{ /gpm for minor aquifer wells} = 186' \text{ radius from the wellhead}$

$186' \times 186' \times 3.14 = 108,631 \text{ square feet around the well}$

$108,631 / 43,560 = \mathbf{2.494 \text{ contiguous acres to be assigned to the well.}}$

The footprint of the well lies entirely within the property controlled by the applicant.

This application is administratively complete.

The permit was issued by the General Manager on 7-23-15 pursuant to District Rule 8.3(j).



Half Associates, Inc., Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community