	А	В	С	D	Е	F
1	Wells permit	ted pursuant to District Rule 8.3(j) - October 2018				
2						
3	Permit #	<u>Permittee</u>	<u>Aquifer</u>	Permitted Amt.	Type of Use	<u>Date</u>
4						
5	BVDO-0247	Tom Turner (Well #1)	Calvert Bluff	40.00	Agricultural	10/2/2018
6	BVOP-0306	XTO Energy (Hancock 3)	Carrizo	5.00	Industrial	10/16/2018
7	BVOP-0307	Okey B. Mason, Jr.	Calvert Bluff	7.00	Industrial	10/16/2018
8	BVOP-0308	XTO Energy (Morgan Creek 7)	Calvert Bluff	2.00	Industrial	10/18/2018
9	BVOP-0309	Hawkwood Energy (Scasta Ranch #1)	Sparta	60.00	Industrial	10/25/2018
10	BVOP-0310	Hawkwood Energy (Scasta Ranch #3)	Sparta	60.00	Industrial	10/25/2018
11						
12						
13		V ·		174.00		
14	Wells -6					
15						
16	6 Calvert Bluff - 49 ac-ft					
17	7 Carrizo - 5 ac-ft					
18	Sparta - 120	ac-ft				
19		1				
20	Total Acre Fe	et -174 ac-ft		3		
21						
22	Board permi	tted wells - 2				

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 Tom Turner (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 31.019950° and W 96.611597° to produce water from the Calvert Bluff Aquifer at an annual maximum capacity not to exceed 100 GPM and a maximum annual production of 40 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 October 2, 2018.

- This Permit is granted in accordance with provisions of the Rules of the District, including amendments, (1)and acceptance of this Permit constitutes an acknowledgment and agreement that Permittee will comply with the Rules of the District.
- 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.
- The operation of the well for the authorized purposes must be conducted in a non-wasteful manner.
- 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 aguifer. 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.
- 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.
- 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.
- 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.
- 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

10-2-18 Alan M. Day, General Manager

Worksheet for Operating Permit

Tom Turner

BVDO-0247

Ken Hajduk seeks a Drilling/Operating Permit for the purpose of:

Agricultural Use – Water for irrigation and stock

Proposed Wells: Well #1

Located at: N 31.019950° W 96.611597° 0.95 miles SE of the intersection of FM 979

and Hunter Road in Robertson County.

Beneficial Use: Agricultural – Use for irrigation and stock water

Aguifer of Origin: Calvert Bluff

Well Column: 8"

Rate of Production: 100 gpm

Max. Annual Production: 40 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:

40 acre feet/year x .62 = 24.8 gpm on an average annual basis

24.8 x 2'/aagpm for Calvert Bluff wells = 49.6' radius from the wellhead

 $49.6' \times 49.6' \times 3.14 = 7,725$ square feet around the well

7,725/43,560 = .1773 contiguous acres to be assigned to the well.

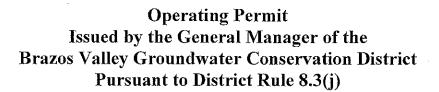
The footprint of the well lies entirely within the property controlled by the applicant.

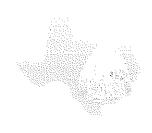
This application is administratively complete.

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

Tom Turner | BVDO-0247 | Calvert Bluff | 40 ac-ft/yr | 49.6' radius







This Operating Permit is granted to XTO Energy (Permittee) authorizing the Permittee to operate a water well known as Hancock 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 31.025167° and W 96.512548° to produce water from the Carrizo Aquifer at an annual maximum capacity not to exceed 50 GPM and a maximum annual production of 5 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 October 16, 2018.

- (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

Alan M. Day, General Manager

Date

0-16-18

Brazos Valley Groundwater Conservation District

Worksheet for an Operating Permit XTO Energy | Hancock 3 BVOP-0306

XTO energy seeks an Operating Permit for the purpose of:

Water for hydraulic fracturing

Existing Well – Hancock 3

Located at: N 31.025167° W 96.512548° 0.57 miles NW of the intersection of Poor

Farm Road and FM 1644 in Robertson County

Beneficial Use: Industrial

Aquifer of Origin: Carrizo

Date Drilled: March 3, 2008

Well Depth: 240'

Well Column: 6"

Tract Size: Approximately 149 acres

Rate of Production: 50 gpm

Max. Annual Production: 5 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:

5 acre feet/year x .62 = 3.1 gpm on an average annual basis

 $3.1 \times 2^{\circ}$ /gpm for Carrizo wells = 6.2° radius from the wellhead

 $6.2 \times 6.2' \times 3.14 = 121$ square feet around the well

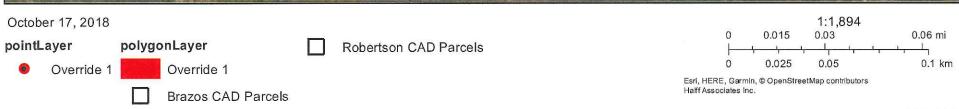
121/43,560 = 0.0028 contiguous acres to be assigned to the well.

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

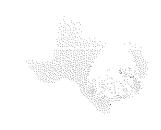
Application is administratively complete. The permit was issued by the General Manager on 10-16-18 pursuant to District Rule 8.3(j).

XTO Energy | BVOP-0306 | Carrizo | 5 ac-ft/yr | 6.2' radius





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 Okey B. Mason, Jr. (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 Industrial use. Permittee is authorized to operate the Well located at N 31.033903° and W 96.541351° to produce water from the Calvert Bluff Aquifer at an annual maximum capacity not to exceed 50 GPM and a maximum annual production of 7 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 October 16, 2018.

- (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

Alan M. Day, General Manager

Date

Worksheet for an Operating Permit

Okey B. Mason, Jr.

BVOP-0307

Okey B. Mason, Jr. seeks an Operating Permit for the purpose of:

Water for hydraulic fracturing

Existing Well – BVR-1418

Located at: N 31.033903° W 96.541351° 0.49 miles W of the intersection of Little

Mississippi Cemetery Road and Kelley Lane in Robertson County

Beneficial Use: Industrial

Aguifer of Origin: Calvert Bluff

Well Depth: 320'

Well Column: 4"

Tract Size: Approximately 61 acres

Rate of Production: 50 gpm

Max. Annual Production: 7 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:

7 acre feet/year x .62 = 4.34 gpm on an average annual basis

4.34 x 2'/gpm for Calvert Bluff wells = 8.68' radius from the wellhead

 $8.68 \times 8.68' \times 3.14 = 237$ square feet around the well

237/43,560 = 0.0054 contiguous acres to be assigned to the well.

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

Application is administratively complete.

The permit was issued by the General Manager on 10-16-18 pursuant to District Rule 8.3(j).

Okey B. Mason | BVOP-0307 | Calvert Bluff | 7 ac-ft/yr | 8.68' radius





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 XTO Energy (Permittee) authorizing the Permittee to operate a water well known as Morgan Creek 7 ("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 31.065000° and W 96.499167° to produce water from the Calvert Bluff Aquifer at an annual maximum capacity not to exceed 50 GPM and a maximum annual production of 2 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 October 18, 2018.

- (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

Alan M. Day, General Manager

Date

10-18-18

Worksheet for an Operating Permit

XTO Energy | Morgan Creek 7

BVOP-0308

XTO energy seeks an Operating Permit for the purpose of:

Water for hydraulic fracturing

Existing Well - Morgan Creek 7

Located at: N 31.065000° W 96.499167° 0.20 miles WNW of the intersection of Grant

Prairie Road and Lone Star Lane in Robertson County

Beneficial Use: Industrial

Aguifer of Origin: Calvert Bluff

Date Drilled: May 6, 2010

Well Depth: 360'

Well Column: 4"

Tract Size: Approximately 134 acres

Rate of Production: 50 gpm

Max. Annual Production: 2 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:

2 acre feet/year x .62 = 1.24 gpm on an average annual basis

1.24 x 2'/gpm for Calvert Bluff wells = 2.48' radius from the wellhead

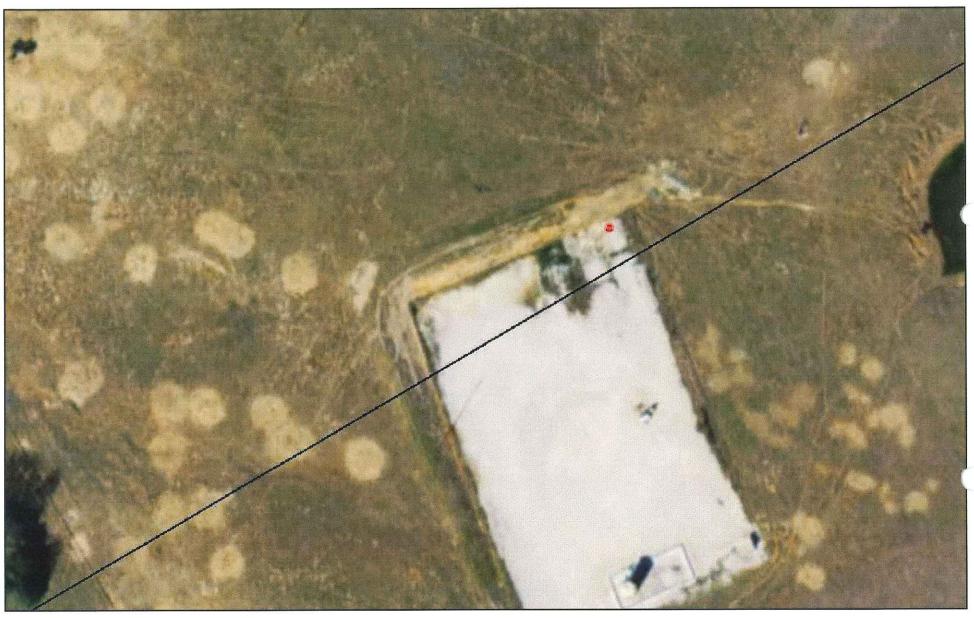
 $2.48 \times 2.48' \times 3.14 = 19.31$ square feet around the well

19.31/43,560 = 0.00044 contiguous acres to be assigned to the well.

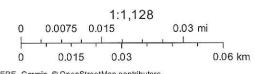
The footprint of the well lies entirely within the property controlled by the applicant.

Application is administratively complete. The permit was issued by the General Manager on 10-18-18 pursuant to District Rule 8.3(j).

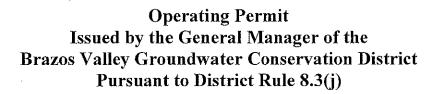
XTO Energy | BVOP-0308 | Calvert Bluff | 2 ac-ft/yr | 2.48' radius

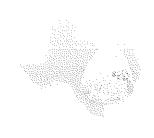






Esri, HERE, Garmin, © OpenStreetMap contributors Halff Associates Inc.





This Operating Permit is granted to Hawkwood Energy (Permittee) authorizing the Permittee to operate a water well known as Scasta Ranch #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 30.87503905° and W 96.38058690° to produce water from the Sparta Aquifer at an annual maximum capacity not to exceed 200 GPM and a maximum annual production of 60 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 October 25, 2018.

- (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

Man M. Day, General Manager

Date

Worksheet for an Operating Permit Hawkwood Energy – Scasta Ranch #1 (BVOP-0309)

Hawkwood Energy seeks an Operating Permit for the purpose of:

Water for hydraulic fracturing

Existing Well - Scasta Ranch #1

Located at: N 30.87503905° W 96.38058690° 0.83 miles WSW of the intersection of FM

46 and E. OSR in Robertson County

Beneficial Use: Industrial

Aguifer of Origin: Sparta

Well Depth: 570'

Well Column: 6"

Date Drilled: 12/12/2014

Tract Size: Approximately 210 acres

Rate of Production: 200 gpm

Max. Annual Production: 60 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:

60 acre feet/year x .62 = 37.2 gpm on an average annual basis

37.2 x 2'/gpm for Sparta wells = 74.4' radius from the wellhead

 $74.4 \times 74.4 \times 3.14 = 17,381$ square feet around the well

17,381/43,560 = 0.399 contiguous acres to be assigned to the well.

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

Application is administratively complete.

The permit was issued by the General Manager on 10-25-18 pursuant to District Rule 8.3(j).

Hawkwood Energy | BVOP-0309 | Scasta Ranch #1 | Sparta | 60 ac-ft/yr | 74.4' radius





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 (Permittee) authorizing the Permittee to operate a water well known as Scasta Ranch #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 30.87464103° and W 96.38188008° to produce water from the Sparta Aquifer at an annual maximum capacity not to exceed 200 GPM and a maximum annual production of 60 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 October 25, 2018.

- (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

<u>O-d5-1</u>号 Date

Worksheet for an Operating Permit Hawkwood Energy – Scasta Ranch #3 (BVOP-0310)

Hawkwood Energy seeks an Operating Permit for the purpose of:

Water for hydraulic fracturing

Existing Well – Scasta Ranch #3

Located at: N 30.87464103° W 96.38188008° 0.91 miles WSW of the intersection of FM

46 and E. OSR in Robertson County

Beneficial Use: Industrial

Aquifer of Origin: Sparta

Well Depth: 570'

Well Column: 6"

Date Drilled: 12/12/2013

Tract Size: Approximately 210 acres

Rate of Production: 200 gpm

Max. Annual Production: 60 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:

60 acre feet/year x .62 = 37.2 gpm on an average annual basis

37.2 x 2'/gpm for Sparta wells = 74.4' radius from the wellhead

 $74.4 \times 74.4 \times 3.14 = 17,381$ square feet around the well

17,381/43,560 = 0.399 contiguous acres to be assigned to the well.

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

Application is administratively complete.

The permit was issued by the General Manager on 10-25-18 pursuant to District Rule 8.3(j).

Hawkwood Energy | BVOP-0310 | Scasta Ranch #3 | Sparta | 60 ac-ft/yr | 74.4' radius



Override 1 Robertson CAD Parcels Esri, HERE, Garmin, © OpenStreetMap contributors Halff Associates Inc. **BVGCD Wells**

Brazos CAD Parcels

pointLayer

Override 1

polygonLayer

0.12 km

0.03

0.06