

Wells permitted pursuant to District Rule 8.3(j) - November, 2015					
<u>Permit #</u>	<u>Permittee</u>	<u>Aquifer</u>	<u>Permitted Amt.</u>	<u>Type of Use</u>	<u>Date</u>
BVOP-0240	Anadarko Petroleum (Scarpinato-Ayers 2-H)	Sparta	4.00	Industrial	11/3/2015
BVOP-0241	Anadarko Petroleum (Capps EB 1-H WW #1)	Sparta	39.00	Industrial	11/25/2015
BVOP-0242	Anadarko Petroleum (Capps EB 1-H WW #2)	Sparta	39.00	Industrial	11/25/2015
BVOP-0243	Anadarko Petroleum (Capps EB 2-H)	Sparta	39.00	Industrial	11/25/2015
BVOP-0244	Anadarko Petroleum (Capps EB 2-H/3-H)	Sparta	39.00	Industrial	11/25/2015
			160.00		
Wells - 5					
Sparta - 160 ac/ft					
Total Acre Feet -160 ac-ft					
Board permitted wells					
BVDO-0200	Gathan & Angel Reistino Farms, LP	BRA	59.00	Agricultural	11/12/2015
BVDO-0201	C3-College Station, LLC	Yegua-Jackson	22.00	Industrial	11/12/2015

Wells permitted pursuant to District Rule 8.3(j) - December, 2015					
Permit #	Permittee	Aquifer	Permitted Amt.	Type of Use	Date
BVOP-0245	Anadarko Petroleum (Misfits Unit EB Pad)	Sparta	3.00	Industrial	12/8/2015
BVOP-0246	Anadarko Petroleum (War Wagon)	Sparta	3.00	Industrial	12/8/2015
			6.00		
Wells - 2					
Sparta - 6 ac/ft					
Total Acre Feet - 6 ac-ft					
Board permitted wells - 0					

Permit No. BV-OP-0240

**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 **Scarpinato-Ayers 2-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 30.699813° and W 96.513468°** to produce water from the **Sparta Aquifer** at an annual maximum capacity not to exceed **200 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 November 3, 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

11-3-15
Date

Worksheet for Operating Permit
Anadarko Petroleum Scarpinato-Ayers 2-H
BVOP-0240

Anadarko Petroleum seeks an Operating Permit for the purpose of:

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

Existing Well Scarpinato-Ayers 2-H

Located at: N 30.699813° W 96.513468° 1.46 miles W of the intersection of OSR and FM 1687 in Brazos County.

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

Aquifer of Origin: **Sparta**

Well Column: **6”**

Rate of Production: **200 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

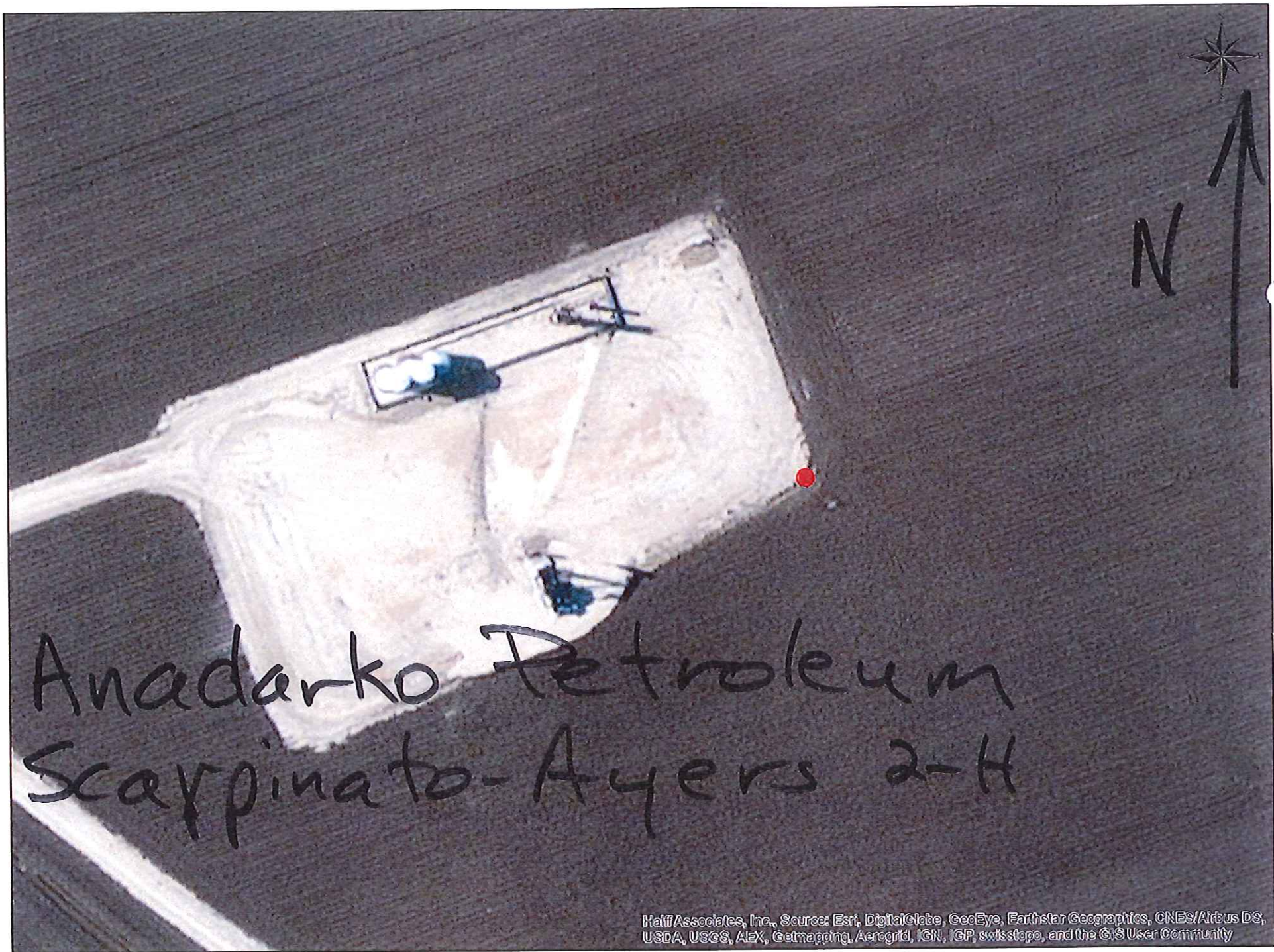
$5' \times 5' \times 3.14 = 78.5$ square feet around the well

$3,018/43,560 = .002$ **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 11-3-15 pursuant to District Rule 8.3(j).



Anadarko Petroleum
Scappinato-Ayers 2-H

Permit No. BV-OP-0241

**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 **Capps EB 1-H 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 30.68667007° and W 96.48583646°** to produce water from the **Sparta Aquifer** at an annual maximum capacity not to exceed **200 GPM** and a maximum annual production of **39 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 November 25, 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

11-25-15
Date

Worksheet for Operating Permit
Anadarko Petroleum Capps EB 1-H WW #1
BVOP-0241

Anadarko Petroleum seeks an Operating Permit for the purpose of:

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

Existing Well Capps EB 1-H WW #1

Located at: N 30.68667007° W 96.48583646° 0.51 miles NE of the intersection of OSR and Homola Road in Brazos County.

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

Aquifer of Origin: **Sparta**

Well Column: **6"**

Rate of Production: **200 gpm**

Max. Annual Production: **39 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:

$39 \text{ acre feet/year} \times .62 = 24.18 \text{ gpm}$ on an average annual basis

$24.18 \times 2'/\text{gpm}$ for minor aquifer wells =48.36' radius from the wellhead

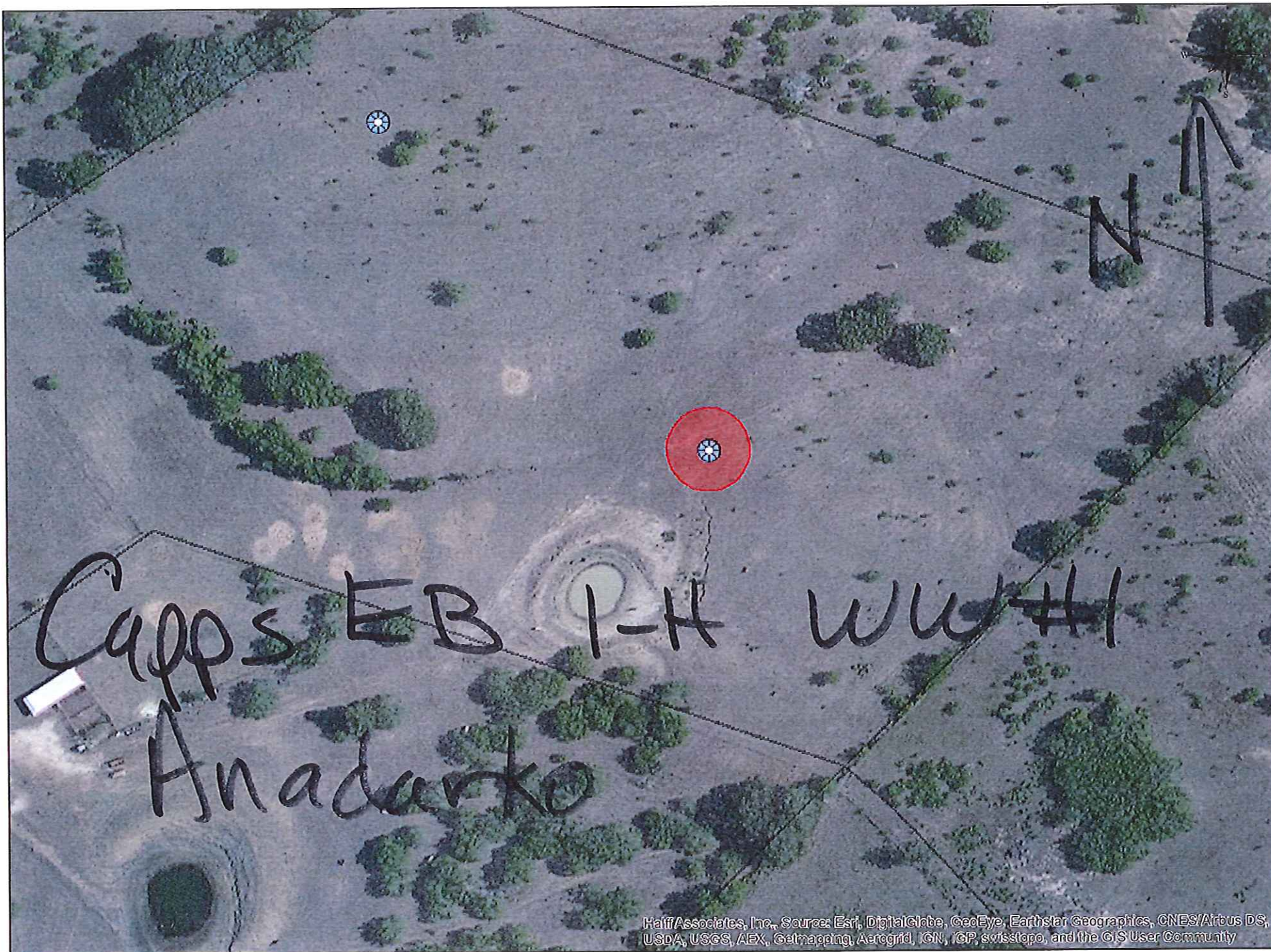
$48.36' \times 48.36' \times 3.14 = 7,343.49$ square feet around the well

$7,343.49/43,560 = .169$ **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 11-25-15 pursuant to District Rule 8.3(j).



Permit No. BV-OP-0242

**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 **Capps EB 1-H 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 30.68773046° and W 96.48705386°** to produce water from the **Sparta Aquifer** at an annual maximum capacity not to exceed **200 GPM** and a maximum annual production of **39 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 November 25, 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

11-25-15

Date

Worksheet for Operating Permit
Anadarko Petroleum Capps EB 1-H WW #2
BVOP-0242

Anadarko Petroleum seeks an Operating Permit for the purpose of:

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

Existing Well Capps EB 1-H WW #2

Located at: N 30. 68773046° W 96. 48705386° 0.51 miles NNE of the intersection of OSR and Homola Road in Brazos County.

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

Aquifer of Origin: **Sparta**

Well Column: **6”**

Rate of Production: **200 gpm**

Max. Annual Production: **39 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:

$39 \text{ acre feet/year} \times .62 = 24.18 \text{ gpm}$ on an average annual basis

$24.18 \times 2'/\text{gpm}$ for minor aquifer wells =48.36' radius from the wellhead

$48.36' \times 48.36' \times 3.14 = 7,343.49$ square feet around the well

$7,343.49/43,560 = .169$ 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 11-25-15 pursuant to District Rule 8.3(j).



Anadarko Petroleum
Capps EB-1-H H2

Permit No. BV-OP-0243

**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 **Capps EB 2-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. 67896584° and W 96.48298679°** to produce water from the **Sparta Aquifer** at an annual maximum capacity not to exceed **200 GPM** and a maximum annual production of **39 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 November 25, 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

11-25-15

Date

Worksheet for Operating Permit
Anadarko Petroleum Capps EB 2-H
BVOP-0243

Anadarko Petroleum seeks an Operating Permit for the purpose of:

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

Existing Well Capps EB 2-H

Located at: N 30.67901704° W 96.48301914° 0.59 miles ESE of the intersection of OSR and Homola Road in Brazos County.

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

Aquifer of Origin: **Sparta**

Well Column: **6"**

Rate of Production: **200 gpm**

Max. Annual Production: **39 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:

$39 \text{ acre feet/year} \times .62 = 24.18 \text{ gpm}$ on an average annual basis

$24.18 \times 2'/\text{gpm}$ for minor aquifer wells =48.36' radius from the wellhead

$48.36' \times 48.36' \times 3.14 = 7,343.49$ square feet around the well

$7,343.49/43,560 = .169$ 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 11-25-15 pursuant to District Rule 8.3(j).



Permit No. BV-OP-0244

**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 **Capps EB 2-H/3-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 30.67807884° and W 96.48395771°** to produce water from the **Sparta Aquifer** at an annual maximum capacity not to exceed **200 GPM** and a maximum annual production of **39 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 November 25, 2015.

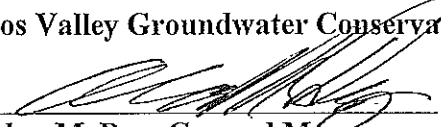
Special Provisions/Notes: None

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

11-25-15
Date

Worksheet for Operating Permit
Anadarko Petroleum Capps EB 2-H/3-H
BVOP-0244

Anadarko Petroleum seeks an Operating Permit for the purpose of:

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

Existing Well Capps EB 2-H/3-H

Located at: N 30.67807884° W 96.48395771° 0.56 miles SE of the intersection of OSR and Homola Road in Brazos County.

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

Aquifer of Origin: **Sparta**

Well Column: **6”**

Rate of Production: **200 gpm**

Max. Annual Production: **39 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:

$39 \text{ acre feet/year} \times .62 = 24.18 \text{ gpm}$ on an average annual basis

$24.18 \times 2'/\text{gpm}$ for minor aquifer wells = 48.36' radius from the wellhead

$48.36' \times 48.36' \times 3.14 = 7,343.49$ square feet around the well

$7,343.49/43,560 = .169$ 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 11-25-15 pursuant to District Rule 8.3(j).



Permit No. BV-OP-0245

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 **Misfits Unit EB Pad** ("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 30.67629609° and W 96.46856792°** to produce water from the **Sparta Aquifer** at an annual maximum capacity not to exceed **200 GPM** and a maximum annual production of **3 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 December 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

12-8-15
Date

Worksheet for Operating Permit
Anadarko Petroleum Misfits Unit EB Pad
BVOP-0245

Anadarko Petroleum seeks an Operating Permit for the purpose of:

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

Existing Well Misfits Unit EB Pad

Located at: N 30.67629609° W 96.46856792° 0.58 miles N of the intersection of Smetana Road and Burt Road in Brazos County.

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

Aquifer of Origin: **Sparta**

Well Column: **6"**

Rate of Production: **200 gpm**

Max. Annual Production: **3 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:

$3 \text{ acre feet/year} \times .62 = 1.86 \text{ gpm}$ on an average annual basis

$1.86 \times 2' \text{ /gpm for minor aquifer wells} = 3.72' \text{ radius from the wellhead}$

$3.72' \times 3.72' \times 3.14 = 43.45 \text{ square feet around the well}$

$43.45 / 43,560 = .0010 \text{ contiguous acres to be assigned to the well.}$

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 12-8-15 pursuant to District Rule 8.3(j).



Misfit Unit EB Pad
Anadarko

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, Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, and the GIS user community

Permit No. BV-OP-0246

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 War Wagon ("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 30.68557757° and W 96.46831563° to produce water from the Sparta Aquifer at an annual maximum capacity not to exceed 200 GPM and a maximum annual production of 3 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 December 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

12-8-15

Date

Worksheet for Operating Permit
Anadarko Petroleum War Wagon
BVOP-0246

Anadarko Petroleum seeks an Operating Permit for the purpose of:

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

Existing Well War Wagon

Located at: N 30.68557757° W 96.46831563° 1.22 miles N of the intersection of Smetana Road and Burt Road in Brazos County.

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

Aquifer of Origin: **Sparta**

Well Column: **6"**

Rate of Production: **200 gpm**

Max. Annual Production: **3 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:

$3 \text{ acre feet/year} \times .62 = 1.86 \text{ gpm}$ on an average annual basis

$1.86 \times 2'/\text{gpm}$ for minor aquifer wells = 3.72' radius from the wellhead

$3.72' \times 3.72' \times 3.14 = 43.45$ square feet around the well

$43.45/43,560 = .0010$ 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 12-8-15 pursuant to District Rule 8.3(j).



Haff Associates, Inc., Source: 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, MapmyIndia, © OpenStreetMap contributors, and the GIS user community