

Wells permitted pursuant to District Rule 8.3(j) - March, 2016					
Permit #	Permittee	Aquifer	Permitted Amt.	Type of Use	Date
BVOP-0256	Anadarko (Rio Lobo EB Unit Nobles-Huckaby #1	Sparta	39.00	Industrial	3/4/2016
BVOP-0257	Anadarko (Rio Lobo EB Unit Nobles-Huckaby #2	Sparta	39.00	Industrial	3/4/2016
			78.00		
Wells - 2					
Sparta - 78 ac/ft					
Total Acre Feet - 78 ac-ft					
Board permitted wells - 0					

Permit No. BV-OP-0256

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 **Rio Lobo EB Unit A1H (Nobles Huckaby #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 30.771576° and W 96.486659°** to produce water from the **Sparta Aquifer** at an annual maximum capacity not to exceed **150 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 March 4, 2016.

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

3-4-16
Date

Worksheet for Operating Permit

Anadarko Petroleum Rio Lobo Unit EB A1H (Nobles Huckaby #1)

BVOP-0256

Anadarko Petroleum seeks an Operating Permit for the purpose of:

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

Existing Well Rio Lobo Unit EB A1H (Nobles Huckaby #1)

Located at: N 30.771576° W 96.486659° 0.41 miles SSE of the intersection of Sadberry Road and Highway 6 in Robertson County.

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

Aquifer of Origin: **Sparta**

Well Column: **4”**

Rate of Production: **150 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

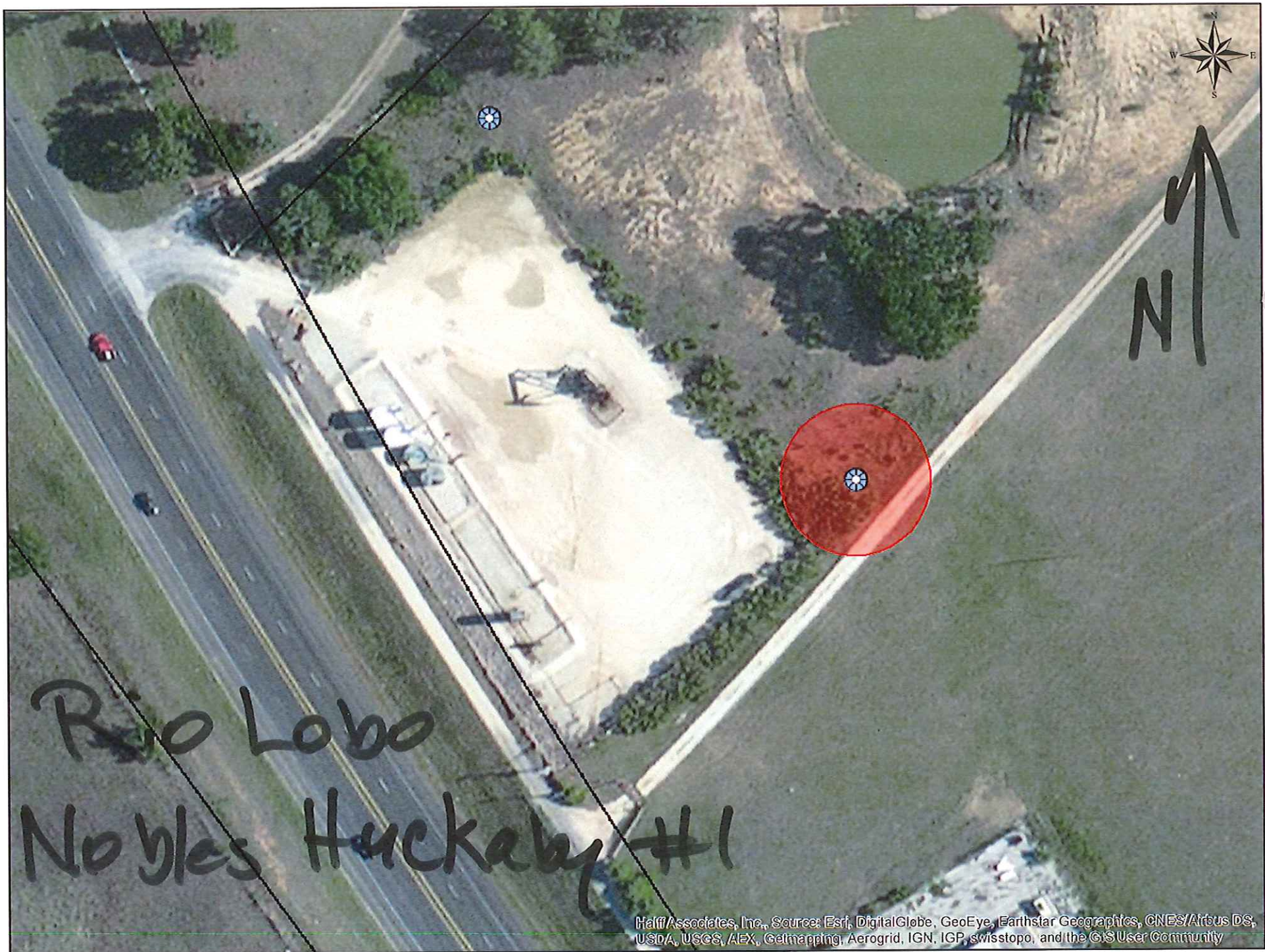
$48.36' \times 48.36' \times 3.14 = 7,343.49$ square feet around the well

$7,343.49/43,560 = .169$ 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.

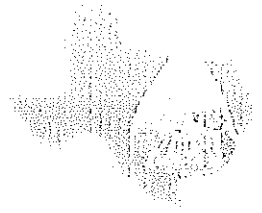
The permit was issued by the General Manager on 3-4-16 pursuant to District Rule 8.3(j).



Rio Lobo
No bles Huckaby #1

Permit No. BV-OP-0257

**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 **Rio Lobo EB Unit A1H (Nobles Huckaby #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 30.772033° and W 96.487491°** to produce water from the **Sparta Aquifer** at an annual maximum capacity not to exceed **150 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 March 4, 2016.

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.
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- (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

3-4-16
Date

Worksheet for Operating Permit

Anadarko Petroleum Rio Lobo Unit EB A1H (Nobles Huckaby #2)

BVOP-0257

Anadarko Petroleum seeks an Operating Permit for the purpose of:

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

Existing Well Rio Lobo Unit EB A1H (Nobles Huckaby #2)

Located at: N 30.772033° W 96.487491° 0.36 miles SSE of the intersection of Sadberry Road and Highway 6 in Robertson County.

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

Aquifer of Origin: **Sparta**

Well Column: **6”**

Rate of Production: **150 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 3-4-16 pursuant to District Rule 8.3(j).

