



United States Department of the Interior
BUREAU OF LAND MANAGEMENT
Washington, D.C. 20240
<http://www.blm.gov>



NOV 07 2011

NOV 17 2011

The Honorable Edward J. Markey
National Resources Committee
House of Representatives
Washington, DC 20515

Dear Representative Markey:

The Bureau of Land Management (BLM) is providing additional information as a follow-up to your February 28, 2011, letter regarding hydraulic fracturing and other issues relating to the development of oil and gas resources on BLM lands.

Enclosed are the answers to 2d and 4. If you have additional questions, please contact me at 202-208-3801, or your staff may contact Patrick Wilkinson, Chief of BLM's Legislative Affairs Division, at 202-912-7421. A similar reply has been sent to Representative Holt.

Sincerely,

A handwritten signature in black ink that appears to read "Robert V. Abbey".

Robert V. Abbey
Director

Enclosure

Bureau of Land Management Response to Questions 2d and 4

Question (2d): Please provide documentation that indicates the location of deposits on federal lands, the type of gas or oil formation, the quantity of estimated oil or gas, and whether the deposit is located in, near or below an underground source of drinking water (as defined in the Safe Drinking Water Act).

Answer (2d): Section 3 of the Energy Policy and Conservation Act (EPCA) Phase III Report provides maps of Federal oil and gas for all sedimentary rock basins in the United States. Oil and gas have been found in all of the basins listed in the report and occur in sedimentary rocks of various types (shale, sandstone, and limestone in most cases). The BLM and the EPCA Report do not track the types of formations in which particular deposits of oil and gas occur. The table below provides estimates of undiscovered, technically recoverable resources and reserve growth in each sedimentary basin, and references the associated EPCA Phase III table published in 2008.

| Federal Oil & Gas Resources by Study Area | | | |
|---|----------------|--------------|--------------------------|
| | Oil (MMbbl) | Gas (BCF) | EPCA Phase III Tables |
| Total ¹ | 30,503 | 230,975 | 3-1 |
| Northern Alaska ² | 17,758 | 79,635 | 3-2 |
| Central Alaska | 149 | 2,721 | 3-3 |
| Southern Alaska | 270 | 394 | 3-4 |
| Eastern Oregon/Washington | 3 | 856 | 3-5 |
| Ventura Basin | 281 | 453 | 3-6 |
| Eastern Great Basin | 1,356 | 204 | 3-7 |
| Uinta-Piceance Basin | 367 | 14,111 | 3-8 |
| Paradox Basin | 312 | 1,048 | 3-9 |
| San Juan Basin | 151 | 25,100 | 3-10 |
| Montana Thrust Belt | 171 | 6,308 | 3-11 |
| Williston Basin | 367 | 618 | 3-12 |
| Powder River Basin | 1,290 | 9,137 | 3-13 |
| Wyoming Thrust Belt | 44 | 633 | 3-14 |
| Southwestern Wyoming | 2,082 | 68,033 | 3-15 |
| Denver Basin | 17 | 88 | 3-16 |
| Florida Peninsula | 74 | 323 | 3-17 |
| Black Warrior Basin | 1 | 391 | 3-18 |
| Appalachian Basin | 33 | 2,423 | 3-19 |
| Extrapolated Results for Alaska | 623 | 2,335 | 3-20 |
| Extrapolated Results - Western Region | 5,064 | 14,731 | 3-21 |
| Extrapolated Results - Eastern Region | 93 | 1,435 | 3-22 |

1 – The updated estimate of total undiscovered, technically recoverable oil reported above would be reduced to 20,839 MMbbl based on updated assessments for the National Petroleum Reserve-Alaska (NPR-A). The updated estimate of total undiscovered, technically recoverable gas reported above would be reduced to 222,462 BCF based on updated assessments for the NPR-A.

2 – In October 2010, the USGS updated their assessment of undiscovered, technically recoverable resources in the (NPR-A) which is in the Northern Alaska Region. The estimate of undiscovered, technically recoverable oil reported above would be reduced by 9,664 MMbbl. The estimate of undiscovered, technically recoverable gas reported above would be reduced by 8,513 BCF.

Bureau of Land Management Response to Questions 2d and 4

Neither the EPCA Phase III Report nor any other congressionally funded project has looked at the co-occurrence of oil and gas with underground sources of drinking water. The USGS has published a Ground Water Atlas of the United States showing an inventory of principal aquifers that are in six types of rocks and deposits (please see http://pubs.usgs.gov/ha/ha730/ch_a/gif/A004_us.gif).

Generally, underground sources of drinking water occur in most sedimentary basins. Drinking water is typically much shallower than oil and gas deposits and is separated from the oil and gas deposits by layers of impermeable rock. The BLM evaluates the potential for groundwater occurrences for each proposed oil and gas well during the Application for Permit to Drill process. The operator is required to identify and isolate all non-hydrocarbon bearing usable water zones with casing and cement. The BLM reviews the drilling plan to ensure that the casing design is capable of successfully isolating and protecting usable water. The information submitted by the operator is confirmed against the best available data for groundwater resources in the area. This data source is typically the state agency charged with water quality or water rights, but it can be the EPA if a state agency does not have primacy. The BLM also makes it a priority to witness casing jobs to verify adherence to the approved drilling permit.

Coal seams represent a special management situation for the BLM. Several coal fields have been developed for coal bed natural gas. Most of these coal seams are also aquifers. In order for the coal bed natural gas to be produced, the water in the coal needs to be removed. After the initial gas is produced, water is reinjected at high pressure to break up the coal and the seam is dewatered a second time. This allows additional gas to be produced. Coal aquifers can supply drinking water, but it is generally of low quality and rarely used without treatment.

Bureau of Land Management Response to Questions 2d and 4

Question (4): Of the wells located on public lands that are currently used for natural gas development, how many have been hydraulically fractured? Of the wells located on public lands currently used for oil development, how many have been hydraulically fractured? Please provide data indicating for each leased area in which hydraulic fracturing occurred whether fracturing occurred in, near or below an underground source of drinking water (as defined in the Safe Drinking Water Act).

Answer (4): Professional estimates solicited from BLM field offices projected 90 to 95 percent of wells drilled for natural gas production over the last 5 years were hydraulically fractured. Because it was not feasible to review records for more than 86,000 wells, the BLM agreed to undertake a review of 706 randomly-selected wells. This sample size represents a confidence rate of 95 percent, and was reached in agreement with your staff. The table below summarizes the results of that review. Attachment 1 provides a more detailed listing for each of the 706 wells sampled.

| Summary of Wells Fractured In, Near, or Below Underground Sources of Drinking Water (USDW) | | | | | | | |
|---|----------|-------------|------------|--|-----------------|---------------|-------------|
| Type | *In USDW | **Near USDW | Below USDW | ***Fractured, but not in, near or below USDW | Total Fractured | Not Fractured | ****Unknown |
| Oil | 0 | 0 | 43 | 115 | 158(59%) | 107 | 1 |
| Gas | 49 | 5 | 113 | 222 | 389 (88%) | 51 | 0 |
| Combined | 49 | 5 | 156 | 337 | 547 (78%) | 158 (22%) | 1 (<1%) |

*Coal Bed Natural Gas is produced from coal seams containing Underground Sources for Drinking Water. The seam is dewatered to reduce pressure and release the gas, then water is reinjected to fracture the coal and produce gas.
** "Near an Underground Source of Drinking Water" is defined as within the zone of endangering influence which is a fixed radius around the well of not less than ¼ mile.
***Fractured, but not in, below or near an USDW – Means fractured in an area that does not supply a public water system or; in an area that may have sufficient water to supply a public water system but does not currently supply water for human consumption or; does not supply water that is less than 10,000 mg/l total dissolved solids.
****Drilled under private lease that government subsequently acquired.

Number of Wells Hydraulically Fractured and Relationship to Underground Sources of Drinking Water
(706 well sample)

| Field Office | Operator | American Petroleum | | | Surface Management Entity | Oil or Gas Well | Hydraulically Fractured? | Relationship to an Underground Source of Drinking Water (USDW) | |
|--------------|--------------------------------|--------------------|--------------|------------------|---------------------------|-----------------|--------------------------|--|-----------------------|
| | | Case Number | Lease Number | Institute Number | | | | | |
| Buffalo | ANADARKO PETROLEUM CORP | WYW149537A | WYW130637 | 490192309200S1 | JOHNSON | Non-Federal | *Gas | Yes | *Fractured in an USDW |
| Buffalo | ANADARKO PETROLEUM CORP | WYW157751A | WYW131747 | 490192692500S1 | JOHNSON | BLM | *Gas | Yes | *Fractured in an USDW |
| Buffalo | ANADARKO PETROLEUM CORP | WYW163057X | WYW153069 | 490056035600S1 | CAMPBELL | Non-Federal | *Gas | Yes | *Fractured in an USDW |
| Buffalo | BILL BARRETT CORPORATION | WYW0271124 | WYW0271124 | 490055622900S1 | CAMPBELL | Non-Federal | *Gas | Yes | *Fractured in an USDW |
| Buffalo | BILL BARRETT CORPORATION | WYW041522 | WYW041522 | 490055948700S1 | CAMPBELL | Non-Federal | *Gas | Yes | *Fractured in an USDW |
| Buffalo | BILL BARRETT CORPORATION | WYW145183 | WYW145183 | 490055573900S1 | CAMPBELL | Non-Federal | *Gas | Yes | *Fractured in an USDW |
| Buffalo | E&B NATURAL RESOURCES MGMT | WYW140779 | WYW140779 | 490056037300S1 | CAMPBELL | Non-Federal | *Gas | Yes | *Fractured in an USDW |
| Buffalo | JM HUBER CORP | WYW0323689A | WYW0323689A | 490056018800S1 | CAMPBELL | Non-Federal | *Gas | Yes | *Fractured in an USDW |
| Buffalo | JM HUBER CORP | WYW134568 | WYW134568 | 490055716700S1 | CAMPBELL | Non-Federal | *Gas | Yes | *Fractured in an USDW |
| Buffalo | JM HUBER CORP | WYW135613 | WYW135613 | 490054589600S1 | CAMPBELL | Non-Federal | *Gas | Yes | *Fractured in an USDW |
| Buffalo | LANCE OIL + GAS CO INC | WYW104539 | WYW104539 | 490054945600S1 | CAMPBELL | Non-Federal | *Gas | Yes | *Fractured in an USDW |
| Buffalo | LANCE OIL + GAS CO INC | WYW129532 | WYW129532 | 490055519400S1 | CAMPBELL | Non-Federal | *Gas | Yes | *Fractured in an USDW |
| Buffalo | LANCE OIL + GAS CO INC | WYW143958 | WYW143958 | 490055872400S1 | CAMPBELL | Non-Federal | *Gas | Yes | *Fractured in an USDW |
| Buffalo | LANCE OIL + GAS CO INC | WYW148368A | WYW135630 | 490192525500S1 | JOHNSON | Non-Federal | *Gas | Yes | *Fractured in an USDW |
| Buffalo | LANCE OIL + GAS CO INC | WYW149556A | WYW149151 | 490192301300S1 | JOHNSON | Non-Federal | *Gas | Yes | *Fractured in an USDW |
| Buffalo | LANCE OIL + GAS CO INC | WYW151581X | WYW149364 | 490192846300S1 | JOHNSON | BLM | *Gas | Yes | *Fractured in an USDW |
| Buffalo | LANCE OIL + GAS CO INC | WYW159215 | WYW159215 | 490055911600S1 | CAMPBELL | BLM | *Gas | Yes | *Fractured in an USDW |
| Buffalo | LANCE OIL + GAS CO INC | WYW95702 | WYW95702 | 490054472500S1 | CAMPBELL | Non-Federal | *Gas | Yes | *Fractured in an USDW |
| Buffalo | NOBLE ENERGY, INC | WYW129512 | WYW129512 | 490055677400S1 | CAMPBELL | BLM | *Gas | Yes | *Fractured in an USDW |
| Buffalo | NOBLE ENERGY, INC | WYW139678 | WYW139678 | 490055160500S1 | CAMPBELL | Non-Federal | *Gas | Yes | *Fractured in an USDW |
| Buffalo | NOBLE ENERGY, INC | WYW140770 | WYW140770 | 490053851200S1 | CAMPBELL | Non-Federal | *Gas | Yes | *Fractured in an USDW |
| Buffalo | NOBLE ENERGY, INC | WYW151534A | WYW128619 | 490192304200S1 | JOHNSON | Non-Federal | *Gas | Yes | *Fractured in an USDW |
| Buffalo | PEABODY NATURAL GAS, LLC | WYW64254 | WYW64254 | 490055201200S1 | CAMPBELL | USFS | *Gas | Yes | *Fractured in an USDW |
| Buffalo | PENNACO ENERGY, INC. | WYW156256 | WYW146297 | 490054502200S1 | CAMPBELL | Non-Federal | *Gas | Yes | *Fractured in an USDW |
| Buffalo | PINNACLE GAS RESOURCES, INC | WYW172627 | WYW172627 | 490332693300S1 | SHERIDAN | Non-Federal | *Gas | Yes | *Fractured in an USDW |
| Buffalo | SAGA PETROLEUM, LLC OF CO | WYW164124 | WYW7527 | 490054937100S1 | CAMPBELL | Non-Federal | *Gas | Yes | *Fractured in an USDW |
| Buffalo | STORM CAT ENERGY (USA) OP CORP | WYW151715 | WYW151715 | 490055337000S1 | CAMPBELL | Non-Federal | *Gas | Yes | *Fractured in an USDW |
| Buffalo | STORM CAT ENERGY (USA) OP CORP | WYW164614 | WYW164614 | 490055633600S1 | CAMPBELL | Non-Federal | *Gas | Yes | *Fractured in an USDW |
| Buffalo | WILLIAMS PRODUCTION RMT CO LLC | WYW126945 | WYW126945 | 490053541100S1 | CAMPBELL | Non-Federal | *Gas | Yes | *Fractured in an USDW |
| Buffalo | WILLIAMS PRODUCTION RMT CO LLC | WYW127804 | WYW127804 | 490192406900S1 | JOHNSON | BLM | *Gas | Yes | *Fractured in an USDW |
| Buffalo | WILLIAMS PRODUCTION RMT CO LLC | WYW145616 | WYW145616 | 490192409400S1 | JOHNSON | Non-Federal | *Gas | Yes | *Fractured in an USDW |
| Buffalo | WILLIAMS PRODUCTION RMT CO LLC | WYW146823 | WYW146823 | 490192655500S1 | JOHNSON | Non-Federal | *Gas | Yes | *Fractured in an USDW |
| Buffalo | WILLIAMS PRODUCTION RMT CO LLC | WYW148333A | WYW144538 | 490055822800S1 | CAMPBELL | BLM | *Gas | Yes | *Fractured in an USDW |
| Buffalo | WILLIAMS PRODUCTION RMT CO LLC | WYW148333A | WYW126405 | 490055005000S1 | CAMPBELL | BLM | *Gas | Yes | *Fractured in an USDW |
| Buffalo | WILLIAMS PRODUCTION RMT CO LLC | WYW148817A | WYW130075 | 490054897200S1 | CAMPBELL | Non-Federal | *Gas | Yes | *Fractured in an USDW |
| Buffalo | WILLIAMS PRODUCTION RMT CO LLC | WYW149561A | WYW146834 | 490192622800S1 | JOHNSON | BLM | *Gas | Yes | *Fractured in an USDW |
| Buffalo | WILLIAMS PRODUCTION RMT CO LLC | WYW150201 | WYW143541 | 490053540700S1 | CAMPBELL | Non-Federal | *Gas | Yes | *Fractured in an USDW |
| Buffalo | WILLIAMS PRODUCTION RMT CO LLC | WYW150648A | WYW140809 | 490192431200S1 | JOHNSON | BLM | *Gas | Yes | *Fractured in an USDW |
| Buffalo | WILLIAMS PRODUCTION RMT CO LLC | WYW153772X | WYW153071 | 490055996500S1 | CAMPBELL | Non-Federal | *Gas | Yes | *Fractured in an USDW |

Number of Wells Hydraulically Fractured and Relationship to Underground Sources of Drinking Water
(706 well sample)

| Field Office | Operator | Case Number | Lease Number | American Petroleum Institute Number | County | Surface Management Entity | Oil or Gas Well | Hydraulically Fractured? | Relationship to an Underground Source of Drinking Water (USDW) |
|----------------|--------------------------------|-------------|--------------|-------------------------------------|------------|---------------------------|-----------------|--------------------------|--|
| Buffalo | WILLIAMS PRODUCTION RMT CO LLC | WYW153772X | WYW0161144 | 490056002300S1 | CAMPBELL | Non-Federal | *Gas | Yes | *Fractured in an USDW |
| Buffalo | WILLIAMS PRODUCTION RMT CO LLC | WYW153772X | WYW127800 | 490055846200S1 | CAMPBELL | Non-Federal | *Gas | Yes | *Fractured in an USDW |
| Buffalo | WILLIAMS PRODUCTION RMT CO LLC | WYW175844 | WYW146824 | 490192528200S1 | JOHNSON | Non-Federal | *Gas | Yes | *Fractured in an USDW |
| Buffalo | WILLIAMS PRODUCTION RMT CO LLC | WYW85360 | WYW85360 | 490192398300S1 | JOHNSON | BLM | *Gas | Yes | *Fractured in an USDW |
| Buffalo | WINDSOR ENERGY GROUP LLC | WYW37098 | WYW37098 | 490192793000S1 | JOHNSON | Non-Federal | *Gas | Yes | *Fractured in an USDW |
| Buffalo | YATES PETROLEUM CORPORATION | WYW128607 | WYW128607 | 490055901700S1 | CAMPBELL | Non-Federal | *Gas | Yes | *Fractured in an USDW |
| Buffalo | YATES PETROLEUM CORPORATION | WYW133620 | WYW133620 | 490192571100S1 | JOHNSON | Non-Federal | *Gas | Yes | *Fractured in an USDW |
| Buffalo | YATES PETROLEUM CORPORATION | WYW146910 | WYW146910 | 490192822200S1 | JOHNSON | Non-Federal | *Gas | Yes | *Fractured in an USDW |
| Buffalo | YATES PETROLEUM CORPORATION | WYW153681 | WYW153681 | 490192573800S1 | JOHNSON | Non-Federal | *Gas | Yes | *Fractured in an USDW |
| Buffalo | PATRIOT ENERGY RESOURCES LLC | WYW130063 | WYW130063 | 490053614200S1 | CAMPBELL | Non-Federal | *Gas | Yes | *Fractured in an USDW |
| Canon City | AUGUSTUS ENERGY PARTNERS LLC | COC13290 | COC13290 | 051250720000S1 | YUMA | Non-Federal | Gas | Yes | Fractured below an USDW |
| Canon City | AUGUSTUS ENERGY PARTNERS LLC | COC13292 | COC13292 | 051251100100S1 | YUMA | Non-Federal | Gas | Yes | Fractured below an USDW |
| Canon City | EARTHSTONE ENERGY INC | COC49184 | COC37842 | 051231443200A2 | WELD | Non-Federal | Gas | Yes | Fractured below an USDW |
| Canon City | NOBLE ENERGY INC | COC56184 | COC52545 | 051231682000S1 | WELD | Non-Federal | Gas | Yes | Fractured below an USDW |
| Canon City | OMIMEX PETROLEUM INC | CO67167 | CO67167 | 051250948900S1 | YUMA | Non-Federal | Gas | Yes | Fractured below an USDW |
| Durango | BP AMERICA PRODUCTION COMPANY | CO47114 | CO47114 | 050670671500S1 | LA PLATA | USFS | Gas | Yes | Fractured below an USDW |
| Durango | BP AMERICA PRODUCTION COMPANY | CO51868 | CO517215 | 050670898400S1 | LA PLATA | BLM | Gas | Yes | Fractured below an USDW |
| Glenwood Spgs | ENCANA OIL & GAS (USA) INC | COC0128381 | COC010075A | 050451088300S1 | GARFIELD | BLM | Gas | Yes | Fractured below an USDW |
| Glenwood Spgs | ENCANA OIL & GAS (USA) INC | COC33152 | COC27826 | 050451453700S1 | GARFIELD | BLM | Gas | Yes | Fractured below an USDW |
| Glenwood Spgs | ENCANA OIL & GAS (USA) INC | COC55972E | COC56258 | 050450747200S1 | GARFIELD | Non-Federal | Gas | Yes | Fractured below an USDW |
| Glenwood Spgs | ENCANA OIL & GAS (USA) INC | COC55972E | COC50128 | 050451867700S1 | GARFIELD | BLM | Gas | Yes | Fractured below an USDW |
| Glenwood Spgs | ENCANA OIL & GAS (USA) INC | COC55972E | COC55603 | 050450924700S1 | GARFIELD | Non-Federal | Gas | Yes | Fractured below an USDW |
| Glenwood Spgs | ENCANA OIL & GAS (USA) INC | COC55972E | COC55604 | 050451050100S1 | GARFIELD | Non-Federal | Gas | Yes | Fractured below an USDW |
| Glenwood Spgs | WILLIAMS PRODUCTION RMT CO | COC073359 | COC59137 | 050451192200S1 | GARFIELD | BLM | Gas | Yes | Fractured below an USDW |
| Glenwood Spgs | WILLIAMS PRODUCTION RMT CO | COC55363 | COC62163 | 050451305200S1 | GARFIELD | BLM | Gas | Yes | Fractured below an USDW |
| Glenwood Spgs | WILLIAMS PRODUCTION RMT CO | COC62740 | COC62162 | 050451016300S1 | GARFIELD | BLM | Gas | Yes | Fractured below an USDW |
| Glenwood Spgs | WILLIAMS PRODUCTION RMT CO | COC67447 | COC62161 | 050451014400S1 | GARFIELD | BLM | Gas | Yes | Fractured below an USDW |
| Grand Junction | OXY USA INC | COC72362 | COC50131 | 050770956000S1 | MESA | Non-Federal | Gas | yes | Fractured below an USDW |
| Meeker | ENCANA OIL & GAS (USA) INC | COC047615A | COC015039 | 051030941500S1 | RIO BLANCO | BLM | Gas | Yes | Fractured below an USDW |
| Meeker | ENCANA OIL & GAS (USA) INC | COC47647A | COC0111235 | 051030993300S1 | RIO BLANCO | BLM | Gas | Yes | Fractured below an USDW |
| Meeker | EXXON MOBIL CORP | COC69547A | COC62806 | 051031051300S1 | RIO BLANCO | Non-Federal | Gas | Yes | Fractured below an USDW |
| Meeker | EXXON MOBIL CORP | COC69547A | COC60723 | 051031100900S1 | RIO BLANCO | BLM | Gas | Yes | Fractured below an USDW |
| Meeker | EXXONMOBIL OIL CORPORATION | COC47666A | COD035679 | 051031052400S1 | RIO BLANCO | BLM | Gas | Yes | Fractured below an USDW |
| Meeker | EXXONMOBIL OIL CORPORATION | COC47666A | COD052141 | 051031137300S1 | RIO BLANCO | BLM | Gas | Yes | Fractured below an USDW |
| Meeker | FOUNDATION ENERGY MGMT LLC | COC10179 | COC10179 | 051031015900S1 | RIO BLANCO | BLM | Gas | Yes | Fractured below an USDW |
| Meeker | KOCH EXPLORATION COMPANY LLC | COC0127529 | COC0127529 | 051031023500S1 | RIO BLANCO | BLM | Gas | Yes | Fractured below an USDW |
| Meeker | LOCIN OIL CORPORATION | COC47627D | COC02741 | 051030892400S1 | RIO BLANCO | BLM | Gas | Yes | Fractured below an USDW |
| Meeker | ROBERT L BAYLESS PRODUCER LLC | COC13202 | COC13202 | 051030783000S1 | RIO BLANCO | BLM | Gas | Yes | Fractured below an USDW |
| Meeker | WEXPRO COMPANY | COC03925A | COC03925A | 051030973500S1 | RIO BLANCO | BLM | Gas | Yes | Fractured below an USDW |

Number of Wells Hydraulically Fractured and Relationship to Underground Sources of Drinking Water
(706 well sample)

| Field Office | Operator | Case Number | Lease Number | American Petroleum Institute Number | County | Surface Management Entity | Oil or Gas Well | Hydraulically Fractured? | Relationship to an Underground Source of Drinking Water (USDW) |
|--------------|--------------------------------|-------------|--------------|-------------------------------------|------------|---------------------------|-----------------|--------------------------|--|
| Meeker | WILLIAMS PRODUCTION RMT CO. | COC68239X | COC60733 | 051031108000S1 | RIO BLANCO | BLM | Gas | Yes | Fractured below an USDW |
| Jackson | SEECO INCORPORATED | ARES39821 | ARES39821 | 031311083500D2 | SEBASTIAN | MILITARY | Gas | Yes | Fractured below an USDW |
| Jackson | XTO ENERGY INCORPORATED | ARES11120 | ARES11120 | 031311007800C1 | SEBASTIAN | MILITARY | Gas | Yes | Fractured below an USDW |
| Jackson | XTO ENERGY INCORPORATED | ARES15188 | ARES15188 | 031311010100D1 | SEBASTIAN | MILITARY | Gas | Yes | Fractured below an USDW |
| Milwaukee | EQT CORPORATION | PAES36997 | PAES36997 | 370632797600S1 | INDIANA | Non-Federal | Gas | Yes | Fractured below an USDW |
| Milwaukee | GREENBRIER ENERGY INC | OHES49564 | OHES49564 | 341112175000S1 | MONROE | USFS | Gas | Yes | Fractured below an USDW |
| Milwaukee | MIKE ROSS INC | WVES36898 | WVES36898 | 470070217500S1 | BRAXTON | Non-Federal | Gas | Yes | Fractured below an USDW |
| Milwaukee | PETROX INC | OHES47144 | OHES47144 | 340092305900S1 | ATHENS | USFS | Gas | Yes | Fractured below an USDW |
| Buffalo | DEVON ENERGY PRODUCTION CO, LP | WYW110656 | WYW34720 | 490052389800S1 | CAMPBELL | Non-Federal | Gas | Yes | Fractured below an USDW |
| Casper | BILL BARRETT CORPORATION | WYW109467A | WYW036778 | 490252291000S1 | NATRONA | BLM | Gas | Yes | Fractured below an USDW |
| Green River | CABOT OIL & GAS CORPORATION | WYW090897D | WYW20158 | 490372705200S1 | SWEETWATER | BLM | Gas | Yes | Fractured below an USDW |
| Green River | CABOT OIL & GAS CORPORATION | WYW129627D | WYW126575 | 490372675900S1 | SWEETWATER | BLM | Gas | Yes | Fractured below an USDW |
| Green River | CABOT OIL & GAS CORPORATION | WYW146604 | WYW5581 | 490372400100S1 | SWEETWATER | BLM | Gas | Yes | Fractured below an USDW |
| Green River | CHEVRON USA INCORPORATED | WYW090895A | WYW42788 | 490232127600S1 | LINCOLN | BLM | Gas | Yes | Fractured below an USDW |
| Green River | CREDO PETROLEUM CORPORATION | WYW24135 | WYW24135 | 490372152000S1 | SWEETWATER | BLM | Gas | Yes | Fractured below an USDW |
| Green River | CROWN ENERGY PARTNERS | WYW110546 | WYW72845 | 490232055400S1 | LINCOLN | BLM | Gas | Yes | Fractured below an USDW |
| Green River | CROWN ENERGY PARTNERS | WYW69480 | WYW69480 | 490372414200S1 | SWEETWATER | BOR | Gas | Yes | Fractured below an USDW |
| Green River | ENCANA OIL & GAS INCORPORATED | WYW164184E | WYW150873 | 490352297700S1 | SUBLETTE | BLM | Gas | Yes | Fractured below an USDW |
| Green River | EOG RESOURCES INCORPORATED | WYW094519B | WYE022931 | 490232070900S1 | LINCOLN | BLM | Gas | Yes | Fractured below an USDW |
| Green River | MAK-J ENERGY WYOMING LLC | WYW88489 | WYW88489 | 490372632400S2 | SWEETWATER | BLM | Gas | Yes | Fractured below an USDW |
| Green River | TRUE OIL COMPANY | WYW3299 | WYW3299 | 490372071900S1 | SWEETWATER | BLM | Gas | Yes | Fractured below an USDW |
| Green River | WHITING OIL AND GAS CORPORATIO | WYW62117 | WYW62117 | 490352290500S1 | SUBLETTE | BLM | Gas | Yes | Fractured below an USDW |
| Green River | XTO ENERGY INCORPORATED | WYW055275 | WYW055275 | 490232092300S2 | LINCOLN | BLM | Gas | Yes | Fractured below an USDW |
| Green River | XTO ENERGY INCORPORATED | WYW090896B | WYW31973 | 490232195300S1 | LINCOLN | BLM | Gas | Yes | Fractured below an USDW |
| Green River | XTO ENERGY INCORPORATED | WYW090896B | WYW0314961 | 490232195500S1 | LINCOLN | BOR | Gas | Yes | Fractured below an USDW |
| Kemmerer | BP AMERICA PRODUCTION CO | WYW0310649 | WYW0310649 | 490232137100S1 | LINCOLN | BLM | Gas | Yes | Fractured below an USDW |
| Kemmerer | BP AMERICA PRODUCTION CO | WYW109754A | WYW0311096 | 490232117000S1 | LINCOLN | BLM | Gas | Yes | Fractured below an USDW |
| Kemmerer | BP AMERICA PRODUCTION CO | WYW168703 | WYW0311095 | 490232220300S1 | LINCOLN | BLM | Gas | Yes | Fractured below an USDW |
| Kemmerer | KERR-MCGEE OIL & GAS ONSHORE L | WYW109472E | WYW0320185 | 490232139700S1 | LINCOLN | BLM | Gas | Yes | Fractured below an USDW |
| Kemmerer | KERR-MCGEE OIL & GAS ONSHORE L | WYW109472E | WYW0320185 | 490232083100S2 | LINCOLN | BLM | Gas | Yes | Fractured below an USDW |
| Kemmerer | KERR-MCGEE OIL & GAS ONSHORE L | WYW109472K | WYW0318354 | 490232143200S1 | LINCOLN | BLM | Gas | Yes | Fractured below an USDW |
| Lander | BURLINGTON RESOURCES O&G CO | WYW3180 | WYW3180 | 490132068300S1 | FREMONT | BLM | Gas | Yes | Fractured below an USDW |
| Lander | ENCANA OIL AND GAS (USA) INC | WYW147739AA | WYW054756 | 490132284400S1 | FREMONT | BLM | Gas | Yes | Fractured below an USDW |
| Lander | ENCANA OIL AND GAS (USA) INC | WYW147739AA | WYW054759 | 490132315100S1 | FREMONT | BLM | Gas | Yes | Fractured below an USDW |
| Pinedale | BP AMERICA PRODUCTION COMPANY | WYW128703 | WYW128703 | 490352470600S1 | SUBLETTE | BLM | Gas | Yes | Fractured below an USDW |
| Pinedale | DEVON ENERGY PRODUCTION CO LP | WYW148569 | WYW148569 | 490352226800S1 | SUBLETTE | BLM | Gas | Yes | Fractured below an USDW |
| Pinedale | ENCANA OIL & GAS USA INC | WYW125943 | WYW125943 | 490352508800S1 | SUBLETTE | BLM | Gas | Yes | Fractured below an USDW |
| Pinedale | ENCANA OIL & GAS USA INC | WYW125944 | WYW125944 | 490352354100S1 | SUBLETTE | BLM | Gas | Yes | Fractured below an USDW |
| Pinedale | ENCANA OIL & GAS USA INC | WYW125950 | WYW125950 | 490352171600S1 | SUBLETTE | BLM | Gas | Yes | Fractured below an USDW |

Number of Wells Hydraulically Fractured and Relationship to Underground Sources of Drinking Water
(706 well sample)

| Field Office | Operator | Case Number | Lease Number | American Petroleum Institute Number | County | Surface Management Entity | Oil or Gas Well | Hydraulically Fractured? | Relationship to an Underground Source of Drinking Water (USDW) |
|--------------|-------------------------------|-------------|--------------|-------------------------------------|------------|---------------------------|-----------------|--------------------------|--|
| Pinedale | ENCANA OIL & GAS USA INC | WYW127749 | WYW127749 | 490352668800S1 | SUBLETTE | BLM | Gas | Yes | Fractured below an USDW |
| Pinedale | ENCANA OIL & GAS USA INC | WYW128703 | WYW128703 | 490352514300S1 | SUBLETTE | BLM | Gas | Yes | Fractured below an USDW |
| Pinedale | ENCANA OIL & GAS USA INC | WYW141883 | WYW141883 | 490352315300S1 | SUBLETTE | BLM | Gas | Yes | Fractured below an USDW |
| Pinedale | EOG RESOURCES INCORPORATED | WYW109621A | WYW0256493 | 490352096500S2 | SUBLETTE | BLM | Gas | Yes | Fractured below an USDW |
| Pinedale | EOG RESOURCES INCORPORATED | WYW109828 | WYE09156B | 490232199900S1 | SUBLETTE | BLM | Gas | Yes | Fractured below an USDW |
| Pinedale | EOG RESOURCES INCORPORATED | WYW21127 | WYW21127 | 490352319800S1 | SUBLETTE | BLM | Gas | Yes | Fractured below an USDW |
| Pinedale | EXXONMOBIL OIL CORPORATION | WYW109548B | WYW01425 | 490352200600D1 | SUBLETTE | BLM | Gas | Yes | Fractured below an USDW |
| Pinedale | EXXONMOBIL OIL CORPORATION | WYW109548C | WYE022972 | 490352350500S1 | SUBLETTE | BLM | Gas | Yes | Fractured below an USDW |
| Pinedale | EXXONMOBIL OIL CORPORATION | WYW109728B | WYE018722A | 490352215600S2 | SUBLETTE | BLM | Gas | Yes | Fractured below an USDW |
| Pinedale | EXXONMOBIL OIL CORPORATION | WYW109728B | WYE024799 | 490352280500A2 | SUBLETTE | BLM | Gas | Yes | Fractured below an USDW |
| Pinedale | EXXONMOBIL OIL CORPORATION | WYW109728C | WYW148411 | 490352288100S1 | SUBLETTE | BLM | Gas | Yes | Fractured below an USDW |
| Pinedale | NEWFIELD PRODUCTION COMPANY | WYW118148 | WYW118148 | 490352330700S1 | SUBLETTE | BLM | Gas | Yes | Fractured below an USDW |
| Pinedale | OMIMEX PETROLEUM INC | WYW136819 | WYW136819 | 490352219000S1 | SUBLETTE | BLM | Gas | Yes | Fractured below an USDW |
| Pinedale | QEP ENERGY COMPANY | WYW08589 | WYW08589 | 490352394200S1 | SUBLETTE | BLM | Gas | Yes | Fractured below an USDW |
| Pinedale | SWEPI LP | WYW06270 | WYW06270 | 490352247300S1 | SUBLETTE | BLM | Gas | Yes | Fractured below an USDW |
| Pinedale | SWEPI LP | WYW130234 | WYW130234 | 490352323100S1 | SUBLETTE | BLM | Gas | Yes | Fractured below an USDW |
| Pinedale | SWEPI LP | WYW130234 | WYW130234 | 490352323000S1 | SUBLETTE | BLM | Gas | Yes | Fractured below an USDW |
| Pinedale | SWEPI LP | WYW144994 | WYW144994 | 490352581200S1 | SUBLETTE | BLM | Gas | Yes | Fractured below an USDW |
| Pinedale | ULTRA RESOURCES INC | WYW015316 | WYW015316 | 490352432800S1 | SUBLETTE | BLM | Gas | Yes | Fractured below an USDW |
| Pinedale | ULTRA RESOURCES INC | WYW015316 | WYW015316 | 490352505400S1 | SUBLETTE | BLM | Gas | Yes | Fractured below an USDW |
| Pinedale | ULTRA RESOURCES INC | WYW015316 | WYW015316 | 490352370900S1 | SUBLETTE | BLM | Gas | Yes | Fractured below an USDW |
| Pinedale | ULTRA RESOURCES INC | WYW06270 | WYW06270 | 490352779000S1 | SUBLETTE | BLM | Gas | Yes | Fractured below an USDW |
| Pinedale | ULTRA RESOURCES INC | WYW06270 | WYW06270 | 490352586400S1 | SUBLETTE | BLM | Gas | Yes | Fractured below an USDW |
| Pinedale | ULTRA RESOURCES INC | WYW06286 | WYW06286 | 490352454800S1 | SUBLETTE | BLM | Gas | Yes | Fractured below an USDW |
| Pinedale | ULTRA RESOURCES INC | WYW06286 | WYW06286 | 490352346900S1 | SUBLETTE | BLM | Gas | Yes | Fractured below an USDW |
| Pinedale | ULTRA RESOURCES INC | WYW118155 | WYW118155 | 490352226700S1 | SUBLETTE | BLM | Gas | Yes | Fractured below an USDW |
| Pinedale | ULTRA RESOURCES INC | WYW135124 | WYW135124 | 490352314300S1 | SUBLETTE | BLM | Gas | Yes | Fractured below an USDW |
| Pinedale | ULTRA RESOURCES INC | WYW143046 | WYW143046 | 490352708900S1 | SUBLETTE | BLM | Gas | Yes | Fractured below an USDW |
| Rawlins | ANADARKO E & P COMPANY LP | WYW109475X | WYW4865 | 490072383200X1 | CARBON | BLM | Gas | Yes | Fractured below an USDW |
| Rawlins | BP AMERICA PRODUCTION COMPANY | WYW110373 | WYW35311 | 490072341700S1 | CARBON | BLM | Gas | Yes | Fractured below an USDW |
| Rawlins | BP AMERICA PRODUCTION COMPANY | WYW110373 | WYW35311 | 490072341800S1 | CARBON | BLM | Gas | Yes | Fractured below an USDW |
| Rawlins | DEVON ENERGY PRODUCTION CO LP | WYW109413E | WYW026759 | 490072059400S1 | CARBON | BLM | Gas | Yes | Fractured below an USDW |
| Rawlins | DEVON ENERGY PRODUCTION CO LP | WYW145714 | WYW145714 | 490072216300S1 | CARBON | BLM | Gas | Yes | Fractured below an USDW |
| Rawlins | DEVON ENERGY PRODUCTION CO LP | WYW154359F | WYW144312 | 490072376300S1 | CARBON | BLM | Gas | Yes | Fractured below an USDW |
| Rawlins | DOUBLE EAGLE PETROLEUM | WYW163121A | WYW163520 | 490072361000S1 | CARBON | BLM | Gas | Yes | Fractured below an USDW |
| Rawlins | MARATHON OIL CO | WYW109743B | WYW34651 | 490370581600A1 | SWEETWATER | BLM | Gas | Yes | Fractured below an USDW |
| Rawlins | MARATHON OIL CO | WYW158198 | WYW021571 | 490372525500S1 | SWEETWATER | BLM | Gas | Yes | Fractured below an USDW |
| Rawlins | SAMSON RESOURCES COMPANY | WYW16350 | WYW16350 | 490372648700S1 | SWEETWATER | BLM | Gas | Yes | Fractured below an USDW |
| Worland | BOWER PROPERTIES II LLC | WYW132356 | WYW132356 | 490432084000D2 | WASHAKIE | BLM | Gas | Yes | Fractured below an USDW |

Number of Wells Hydraulically Fractured and Relationship to Underground Sources of Drinking Water
(706 well sample)

| Field Office | Operator | Case Number | Lease Number | American Petroleum Institute Number | County | Surface Management Entity | Oil or Gas Well | Hydraulically Fractured? | Relationship to an Underground Source of Drinking Water (USDW) |
|----------------|--------------------------------|-------------|--------------|-------------------------------------|-------------|---------------------------|-----------------|--------------------------|--|
| Worland | CONTINENTAL RESOURCES INC | WYW109468D | WYW020999 | 490432076300S1 | WASHAKIE | BLM | Gas | Yes | Fractured below an USDW |
| Worland | ENCORE ENERGY PARTNERS OPERATI | WYC073727 | WYC073727 | 490290605600S1 | PARK | BLM | Gas | Yes | Fractured below an USDW |
| Worland | FIDELITY EXPL & PROD CO | WYW109689A | WYC067672 | 490290635300S2 | PARK | BLM | Gas | Yes | Fractured below an USDW |
| Tulsa | BP AMERICA PRODUCTION COMPANY | OKNM74312 | OKBLM037514 | 351212190500D1 | PITTSBURG | Non-Federal | Gas | Yes | Fractured below an USDW |
| Tulsa | BURLINGTON RES OIL + GAS CO LP | OKNM74649 | OKNM15715 | 351292261600S1 | ROGER MILLS | USFS | Gas | Yes | Fractured below an USDW |
| Tulsa | UNION PACIFIC RESOURCES CO | TXNM27328 | TXNM27328 | 424033039700S1 | SABINE | USFS | Gas | Yes | Fractured below an USDW |
| Glenwood Spgs | ENCANA OIL & GAS (USA) INC | COC55972E | COC55604 | 050451844400S1 | GARFIELD | Non-Federal | Gas | Yes | **Fractured near an USDW |
| Glenwood Spgs | WILLIAMS PRODUCTION RMT CO | COC58078 | COC46030 | 050451632500S1 | GARFIELD | BLM | Gas | Yes | **Fractured near an USDW |
| Glenwood Spgs | WILLIAMS PRODUCTION RMT CO | COC62160 | COC62160 | 050451069200S1 | GARFIELD | BLM | Gas | Yes | **Fractured near an USDW |
| Price | MARION ENERGY INCORPORATED | UTU63018A | UTU01740 | 430153068500S1 | EMERY | USFS | Gas | Yes | **Fractured near an USDW |
| Price | MERIT ENERGY COMPANY | UTU63089O | UTU15203 | 430153011700S1 | EMERY | USFS | Gas | Yes | **Fractured near an USDW |
| Craig | CHEVRON USA INCORPORATED | CO0128360 | COD033571B | 050810713700S1 | MOFFAT | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Glenwood Spgs | ENCANA OIL & GAS (USA) INC | CO01523 | COC01523 | 050451116000S1 | GARFIELD | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Glenwood Spgs | NOBLE ENERGY INC | CO23443 | COC23443 | 050451430500S1 | GARFIELD | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Glenwood Spgs | OXY USA WTP LP | CO66724 | COC66724 | 050770887800S1 | MESA | USFS | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Glenwood Spgs | OXY USA WTP LP | CO66918 | COC66918 | 050770939300S1 | MESA | USFS | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Glenwood Spgs | WILLIAMS PRODUCTION RMT CO | CO24603 | COC24603 | 050450719200S1 | GARFIELD | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Glenwood Spgs | WILLIAMS PRODUCTION RMT CO | CO24603 | COC24603 | 050450741100S1 | GARFIELD | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Glenwood Spgs | WILLIAMS PRODUCTION RMT CO | CO45093 | COC24603 | 050451022600S1 | GARFIELD | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Glenwood Spgs | WILLIAMS PRODUCTION RMT CO | CO62160 | COC62160 | 050451280600S1 | GARFIELD | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Glenwood Spgs | WILLIAMS PRODUCTION RMT CO | CO62160 | COC62160 | 050450648600S1 | GARFIELD | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Glenwood Spgs | WILLIAMS PRODUCTION RMT CO | CO62737 | COC62162 | 050451585100S1 | GARFIELD | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Glenwood Spgs | WILLIAMS PRODUCTION RMT CO | CO62737 | COC62162 | 050451485200S1 | GARFIELD | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Glenwood Spgs | WILLIAMS PRODUCTION RMT CO | CO62739 | COC62162 | 050450992200S1 | GARFIELD | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Grand Junction | ENCANA OIL & GAS (USA) INC | CO47614A | COC16982 | 050450611900S1 | GARFIELD | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Grand Junction | HRM RESOURCES LLC | CO17469 | COC17469 | 050450614700S1 | GARFIELD | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Dickinson | BTA OIL PRODUCERS | NDM91721X | NDM32156 | 330110026800S1 | BOWMAN | Non-Federal | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Dickinson | BTA OIL PRODUCERS | NDM91721X | NDM92283 | 330110113500S1 | BOWMAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Great Falls | FIDELITY EXPLORATION & PROD CO | MTM68650D | MTGF084397 | 250712256400S1 | PHILLIPS | Non-Federal | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Great Falls | NOBLE ENERGY INC | MTM68678B | MTM15623 | 250712196400S1 | PHILLIPS | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Great Falls | OMIMEX CANADA LTD | MTM84071 | MTM84071 | 250052317900S1 | BLAINE | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Miles City | FIDELITY EXPL & PROD CO | 8910086000 | MTBIL021068A | 250252218100S1 | FALLON | Non-Federal | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Miles City | FIDELITY EXPL & PROD CO | 8910086000 | MTBIL032090 | 250252235600S1 | FALLON | Non-Federal | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Miles City | FIDELITY EXPL & PROD CO | 892000374A | NDBIS024640 | 330110116700S1 | BOWMAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Miles City | FIDELITY EXPL & PROD CO | MTM89396 | MTBIL024347B | 250252178900S1 | FALLON | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | BOPCO LP | NMNM111784 | NMLC059365 | 300153295500S1 | EDDY | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | C & D MANAGEMENT COMPANY | NMLC045818A | NMLC045818A | 300152284800S1 | EDDY | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | C & D MANAGEMENT COMPANY | NMLC045818A | NMLC045818A | 300152284800S1 | EDDY | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | CHEVRON USA INCORPORATED | NMLC065457 | NMLC065457 | 300153338700S1 | EDDY | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |

Number of Wells Hydraulically Fractured and Relationship to Underground Sources of Drinking Water
(706 well sample)

| Field Office | Operator | Case Number | Lease Number | American Petroleum Institute Number | County | Surface Management Entity | Oil or Gas Well | Hydraulically Fractured? | Relationship to an Underground Source of Drinking Water (USDW) |
|--------------|--------------------------------|-------------|--------------|-------------------------------------|------------|---------------------------|-----------------|--------------------------|--|
| Carlsbad | DEVON ENERGY PRODUCTION CO L P | NMNM114018 | NMNM112253 | 300153396600S1 | EDDY | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | DEVON ENERGY PRODUCTION CO L P | NMNM72419 | NMNM0514349A | 300152141700S1 | EDDY | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | DEVON ENERGY PRODUCTION CO L P | NMNM88104 | NMNM88104 | 300153114200S1 | EDDY | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | FASKEN OIL & RANCH LTD | NMNM72290 | NMNM17097 | 300152403500S1 | EDDY | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | MEWBURNE OIL COMPANY | NMLC066087A | NMLC066087A | 300153592800S1 | EDDY | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | MEWBURNE OIL COMPANY | NMNM112736 | NMNM111955 | 300153365800S1 | EDDY | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | MEWBURNE OIL COMPANY | NMNM83583 | NMNM83583 | 300152934300S1 | EDDY | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | RKI EXPLORTION AND PRODUCTION | NMNM87881 | NMNM34247 | 300152684700C1 | EDDY | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | YATES PETROLEUM CORPORATION | NMNM120829 | NMNM1372 | 300152671100S2 | EDDY | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | YATES PETROLEUM CORPORATION | NMNM85354 | NMNM0251099A | 300153068700S1 | EDDY | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | YATES PETROLEUM CORPORATION | NMNM92742 | NMNM92742 | 300153234600S1 | EDDY | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BP AMERICA PRODUCTION CO. | NMNM013688 | NMNM013688 | 300451034800C1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BP AMERICA PRODUCTION CO. | NMNM09717 | NMNM09717 | 300453193900C2 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BP AMERICA PRODUCTION CO. | NMNM73215 | NMSF078051 | 300453189000C2 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BP AMERICA PRODUCTION CO. | NMNM73345 | NMNM010989 | 300453189500C2 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BP AMERICA PRODUCTION CO. | NMNM73991 | NMNM03566 | 300452491700C1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BP AMERICA PRODUCTION CO. | NMSF078049 | NMSF078049 | 300452272100C2 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BP AMERICA PRODUCTION CO. | NMSF078499 | NMSF078499 | 300452396700C1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BP AMERICA PRODUCTION CO. | NMSF078596A | NMSF078596A | 300452556400C1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BURLINGTON RESOURCES O&G CO LP | NMNM01594 | NMNM01594 | 300452257900S1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BURLINGTON RESOURCES O&G CO LP | NMNM01772A | NMNM01772A | 300452529100D2 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BURLINGTON RESOURCES O&G CO LP | NMNM02861 | NMNM02861 | 300453444900S1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BURLINGTON RESOURCES O&G CO LP | NMNM04375 | NMNM04375 | 300453424600C1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BURLINGTON RESOURCES O&G CO LP | NMNM09840 | NMNM09840 | 300452076900S1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BURLINGTON RESOURCES O&G CO LP | NMNM104884 | NMNM03195 | 300453072800C1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BURLINGTON RESOURCES O&G CO LP | NMNM121407 | NMSF078097 | 300453433600S1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BURLINGTON RESOURCES O&G CO LP | NMNM73184 | NMSF079962 | 300452991200S1 | SAN JUAN | Non-Federal | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BURLINGTON RESOURCES O&G CO LP | NMNM73452 | NMSF076958 | 300450827700S1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BURLINGTON RESOURCES O&G CO LP | NMNM73897 | NMSF077865 | 300450799300C1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BURLINGTON RESOURCES O&G CO LP | NMNM74040 | NMSF078134 | 300452054800S1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BURLINGTON RESOURCES O&G CO LP | NMNM76432 | NMSF079962 | 300452664300S1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BURLINGTON RESOURCES O&G CO LP | NMNM78372B | NMSF081155 | 300453040200C1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BURLINGTON RESOURCES O&G CO LP | NMNM78394B | NMNM03491 | 300453441100S1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BURLINGTON RESOURCES O&G CO LP | NMNM78395C | NMNM02874A | 300452025200S1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BURLINGTON RESOURCES O&G CO LP | NMNM78395C | NMNM01074 | 300452140500S1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BURLINGTON RESOURCES O&G CO LP | NMNM78395D | NMNM01051 | 300453468200S1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BURLINGTON RESOURCES O&G CO LP | NMNM78408A | NMSF080670 | 300390693700C1 | RIO ARRIBA | USFS | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BURLINGTON RESOURCES O&G CO LP | NMNM78410A | NMNM03863 | 300393036100C2 | RIO ARRIBA | USFS | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BURLINGTON RESOURCES O&G CO LP | NMNM78411B | NMSF080516A | 300392384700S1 | RIO ARRIBA | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |

Number of Wells Hydraulically Fractured and Relationship to Underground Sources of Drinking Water
(706 well sample)

| Field Office | Operator | American Petroleum | | | Surface | | | Relationship to an Underground Source of Drinking Water (USDW) | |
|--------------|--------------------------------|--------------------|--------------|------------------|------------|-------------------|-----------------|--|---|
| | | Case Number | Lease Number | Institute Number | County | Management Entity | Oil or Gas Well | Hydraulically Fractured? | |
| Farmington | BURLINGTON RESOURCES O&G CO LP | NMNM78412A | NMSF079049C | 300390709900C2 | RIO ARRIBA | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BURLINGTON RESOURCES O&G CO LP | NMNM78412A | NMSF079363 | 300390710700C1 | RIO ARRIBA | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BURLINGTON RESOURCES O&G CO LP | NMNM78412A | NMSF079193 | 300390738700S1 | RIO ARRIBA | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BURLINGTON RESOURCES O&G CO LP | NMNM78412A | NMSF079051 | 300392761300C2 | RIO ARRIBA | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BURLINGTON RESOURCES O&G CO LP | NMNM78412C | NMSF079365 | 300393069400C1 | RIO ARRIBA | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BURLINGTON RESOURCES O&G CO LP | NMNM78412C | NMNM013656 | 300392547400C1 | RIO ARRIBA | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BURLINGTON RESOURCES O&G CO LP | NMNM78417A | NMSF078423 | 300392613800S1 | RIO ARRIBA | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BURLINGTON RESOURCES O&G CO LP | NMNM78417A | NMSF078503 | 300390756900S1 | RIO ARRIBA | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BURLINGTON RESOURCES O&G CO LP | NMNM78417A | NMSF078503A | 300392163300S1 | RIO ARRIBA | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BURLINGTON RESOURCES O&G CO LP | NMNM78417B | NMSF078945 | 300392745800C1 | RIO ARRIBA | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BURLINGTON RESOURCES O&G CO LP | NMNM78420A | NMSF080713 | 300393083400C2 | RIO ARRIBA | Non-Federal | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BURLINGTON RESOURCES O&G CO LP | NMNM78420A | NMSF080712A | 300392194000S1 | RIO ARRIBA | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BURLINGTON RESOURCES O&G CO LP | NMNM78420D | NMSF080713 | 300393087300C1 | RIO ARRIBA | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BURLINGTON RESOURCES O&G CO LP | NMNM83977 | NMSF078129 | 300452701900S1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BURLINGTON RESOURCES O&G CO LP | NMNM83988 | NMSF078138 | 300453083900C2 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BURLINGTON RESOURCES O&G CO LP | NMNM84003 | NMSF081078 | 300452687900S1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BURLINGTON RESOURCES O&G CO LP | NMNM86311 | NMSF077386A | 300450636600S2 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BURLINGTON RESOURCES O&G CO LP | NMSF078115 | NMSF078115 | 300452724700S1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BURLINGTON RESOURCES O&G CO LP | NMSF078200A | NMSF078200A | 300453330600C2 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BURLINGTON RESOURCES O&G CO LP | NMSF078204 | NMSF078204 | 300452386200C1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BURLINGTON RESOURCES O&G CO LP | NMSF078421 | NMSF078421 | 300450635900S2 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BURLINGTON RESOURCES O&G CO LP | NMSF078499A | NMSF078499A | 300453117900C2 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BURLINGTON RESOURCES O&G CO LP | NMSF078566A | NMSF078566A | 300452644400C1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | BURLINGTON RESOURCES O&G CO LP | NMSF080376A | NMSF080376A | 300452299100S1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | CHEVRON MIDCONTINENT, LP | NMNM78406A | NMSF079366 | 300396009300D2 | RIO ARRIBA | Non-Federal | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | COLEMAN OIL & GAS INCORPORATED | NMNM100807 | NMNM100807 | 300453274000S1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | COLEMAN OIL & GAS INCORPORATED | NMNM104607 | NMNM104607 | 300453382700S1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | CONOCOPHILLIPS COMPANY | NMNM012698 | NMNM012698 | 300392975700C1 | RIO ARRIBA | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | CONOCOPHILLIPS COMPANY | NMNM73387 | NMSF078146 | 300453338700C2 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | CONOCOPHILLIPS COMPANY | NMNM73433 | NMSF078097 | 300451017500C1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | CONOCOPHILLIPS COMPANY | NMNM73973 | NMNM03553 | 300392671600C1 | RIO ARRIBA | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | CONOCOPHILLIPS COMPANY | NMNM76141 | NMNM03567 | 300452314600C1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | CONOCOPHILLIPS COMPANY | NMNM78413A | NMSF078570 | 300393040700C2 | RIO ARRIBA | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | CONOCOPHILLIPS COMPANY | NMNM78413A | NMSF078972 | 300392582000C2 | RIO ARRIBA | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | CONOCOPHILLIPS COMPANY | NMNM78413A | NMSF078640 | 300393063100C2 | RIO ARRIBA | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | CONOCOPHILLIPS COMPANY | NMNM78413A | NMSF078417 | 300392220900D1 | RIO ARRIBA | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | CONOCOPHILLIPS COMPANY | NMNM78413B | NMSF078500A | 300390736700C2 | RIO ARRIBA | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | CONOCOPHILLIPS COMPANY | NMNM78413B | NMSF078496 | 300390726500C2 | RIO ARRIBA | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | CONOCOPHILLIPS COMPANY | NMNM78415B | NMSF078282 | 300392753800C1 | RIO ARRIBA | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |

Number of Wells Hydraulically Fractured and Relationship to Underground Sources of Drinking Water
(706 well sample)

| Field Office | Operator | American Petroleum | Surface | Relationship to an Underground Source of Drinking Water (USDW) | | | | | |
|---------------------|--------------------------------|---------------------------|---------------------|---|---------------|--------------------------|------------------------|---------------------------------|---|
| | | Case Number | Lease Number | Institute Number | County | Management Entity | Oil or Gas Well | Hydraulically Fractured? | |
| Farmington | CONOCOPHILLIPS COMPANY | NMMN78419A | NMSF080538 | 300390785100S1 | RIO ARRIBA | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | CONOCOPHILLIPS COMPANY | NMMN78419A | NMSF080538 | 300392570600C2 | RIO ARRIBA | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | CONOCOPHILLIPS COMPANY | NMMN78419A | NMSF080538 | 300392677600C2 | RIO ARRIBA | USFS | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | CONOCOPHILLIPS COMPANY | NMMN78419B | NMSF080538 | 300392615800C1 | RIO ARRIBA | USFS | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | CONOCOPHILLIPS COMPANY | NMMN78421A | NMNM012735 | 300392648100C2 | RIO ARRIBA | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | CONOCOPHILLIPS COMPANY | NMMN78421A | NMSF078999 | 300393001300C2 | RIO ARRIBA | Non-Federal | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | CONOCOPHILLIPS COMPANY | NMMN78421C | NMSF078995 | 300392740000S1 | RIO ARRIBA | Non-Federal | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | CONOCOPHILLIPS COMPANY | NMMN78423C | NMSF078459 | 300453015700C1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | CONOCOPHILLIPS COMPANY | NMMN78423C | NMSF078543 | 300452477700S1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | CONOCOPHILLIPS COMPANY | NMMN78424A | NMSF079004 | 300453405800S1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | CONOCOPHILLIPS COMPANY | NMSF077106 | NMSF077106 | 300452388800C1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | CONOCOPHILLIPS COMPANY | NMSF077106 | NMSF077106 | 300453090300C1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | CONOCOPHILLIPS COMPANY | NMSF077107 | NMSF077107 | 300450705600S1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | CONOCOPHILLIPS COMPANY | NMSF078194 | NMSF078194 | 300452866600S1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | CONOCOPHILLIPS COMPANY | NMSF080245 | NMSF080245 | 300452416100C1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | DEVON ENERGY PRODUCTION CO LP | NMMN78402A | NMSF079053 | 300390778500S1 | RIO ARRIBA | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | DEVON ENERGY PRODUCTION CO LP | NMMN78402A | NMSF078615A | 300452204400S1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | DEVON ENERGY PRODUCTION CO LP | NMMN78402A | NMSF078970 | 300453136500C2 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | DEVON ENERGY PRODUCTION CO LP | NMMN78402A | NMSF079010 | 300393014901D2 | RIO ARRIBA | BOR | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | DEVON ENERGY PRODUCTION CO LP | NMMN78402C | NMNM03357 | 300392705100C1 | SAN JUAN | BOR | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | DUGAN PRODUCTION CORPORATION | NMMN012737 | NMMN012737 | 300452963900C2 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | DUGAN PRODUCTION CORPORATION | NMMN048989 | NMMN048989 | 300453433400S1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | DUGAN PRODUCTION CORPORATION | NMMN6899 | NMMN6899 | 300452418600S1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | ELM RIDGE RESOURCES INC | NMSF079161 | NMSF079161 | 300392143900D1 | RIO ARRIBA | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | ENERGEN RESOURCES CORPORATION | NMMN012202 | NMMN012202 | 300453310800S1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | ENERGEN RESOURCES CORPORATION | NMMN118661 | NMSF078936 | 300450682600S2 | SAN JUAN | BIA | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | ENERGEN RESOURCES CORPORATION | NMMN73594 | NMSF044535B | 300450750100S1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | ENERGEN RESOURCES CORPORATION | NMMN99462 | NMMN28812 | 300392478600S1 | RIO ARRIBA | USFS | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | ENERGEN RESOURCES CORPORATION | NMSF078050 | NMSF078050 | 300450686400C1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | ENERGEN RESOURCES CORPORATION | NMSF078197 | NMSF078197 | 300452156900D2 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | ENERGEN RESOURCES CORPORATION | NMSF080776 | NMSF080776 | 300453326300S1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | ENERGEN RESOURCES CORPORATION | NMSF080917 | NMSF080917 | 300453352400S1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | FOUR STAR OIL GAS COMPANY | NMSF079298C | NMSF079298C | 300390699100S1 | RIO ARRIBA | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | HUNTINGTON ENERGY LLC | NMSF078886 | NMSF078886 | 300390544100D1 | RIO ARRIBA | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | KUKUI OPERATING COMPANY | NMSF077382 | NMSF077382 | 300452845000S1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | MCELVAINE OIL & GAS PROPERTIES | NMMN76407 | NMSF080136 | 300392376500D2 | RIO ARRIBA | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | MERRION OIL & GAS CORP | NMMN31059 | NMMN31059 | 300453029200S1 | SAN JUAN | BIA | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | NOBLE ENERGY INC | NMMN73667 | NMMN059848 | 300453225400C2 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | PHOENIX HYDROCARBONS OPER CORP | NMSF078476 | NMSF078476 | 300452914900S1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |

Number of Wells Hydraulically Fractured and Relationship to Underground Sources of Drinking Water
(706 well sample)

| Field Office | Operator | American Petroleum | | | | Surface Management Entity | Oil or Gas Well | Hydraulically Fractured? | Relationship to an Underground Source of Drinking Water (USDW) |
|--------------|-------------------------------|--------------------|--------------|------------------|------------|---------------------------|-----------------|--------------------------|--|
| | | Case Number | Lease Number | Institute Number | County | | | | |
| Farmington | RICHARDSON OPERATING CO | NMNM013860A | NMNM013860A | 300453199800S1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | ROBERT L BAYLESS PRODUCER LLC | NMNM047 | NMNM047 | 300453022400S1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | ROBERT L BAYLESS PRODUCER LLC | NMNM047 | NMNM047 | 300452992300C2 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | RODDY PRODUCTION CO LLC | NMNM020496 | NMNM020496 | 300453414900S1 | SAN JUAN | BIA | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | WILLIAMS PRODUCTION CO LLC | NMNM78388A | NMNM03189 | 300451149500S1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | WILLIAMS PRODUCTION CO LLC | NMNM78407A | NMSF078767 | 300392627400S1 | RIO ARRIBA | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | WILLIAMS PRODUCTION CO LLC | NMNM78407D | NMSF078770 | 300392459600S1 | RIO ARRIBA | USFS | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | WILLIAMS PRODUCTION CO LLC | NMNM78407X | NMSF078771 | 300393093700S1 | RIO ARRIBA | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | WILLIAMS PRODUCTION CO LLC | NMSF078767 | NMSF078767 | 300393033600C2 | RIO ARRIBA | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | XTO ENERGY INC | NMNM020501 | NMNM020501 | 300452439500S1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | XTO ENERGY INC | NMNM020501 | NMNM020501 | 300453204700S1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | XTO ENERGY INC | NMNM03380 | NMNM03380 | 300450645300C1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | XTO ENERGY INC | NMNM03381 | NMNM03381 | 300392733000C2 | RIO ARRIBA | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | XTO ENERGY INC | NMNM03551 | NMNM03551 | 300390669100S1 | RIO ARRIBA | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | XTO ENERGY INC | NMNM03553 | NMNM03553 | 300392110500C1 | RIO ARRIBA | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | XTO ENERGY INC | NMNM73676 | NMSF077329 | 300450656300S1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | XTO ENERGY INC | NMNM95705 | NMNM86494 | 300453157100S1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | XTO ENERGY INC | NMSF077384 | NMSF077384 | 300453003700S1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | XTO ENERGY INC | NMSF078641 | NMSF078641 | 300453165600C2 | SAN JUAN | BIA | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | XTO ENERGY INC | NMSF079162 | NMSF079162 | 300390653300S1 | RIO ARRIBA | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | XTO ENERGY INC | NMSF079186 | NMSF079186 | 300392767600C2 | RIO ARRIBA | BLM | Gas | yes | ***Fractured, but not in, below or near an USDW |
| Farmington | XTO ENERGY INC | NMSF079232 | NMSF079232 | 300453115400C1 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Farmington | XTO ENERGY INC | NMSF079232 | NMSF079232 | 300450620000C2 | SAN JUAN | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Hobbs | CONOCOPHILLIPS COMPANY | NMLC032099B | NMLC032099B | 300253321000S1 | LEA | Non-Federal | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Hobbs | EOG RESOURCES INCORPORATED | NMNM114176 | NMNM049943 | 300252844200S2 | LEA | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Hobbs | LOEB HERMAN L, LLC | NMNM4353 | NMNM4353 | 300252549800S1 | LEA | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Hobbs | PECOS OPERATING COMPANY LLC | NMNM70796A | NMNM2386A | 300252489300S1 | LEA | Non-Federal | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Hobbs | REMUDA OPERATING COMPANY | NMNM13125 | NMNM13125 | 300252382600S1 | LEA | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Hobbs | XTO ENERGY INCORPORATED | NMNM71132 | NMLC032545B | 300253364600S1 | LEA | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Rio Puerco | ELM RIDGE RESOURCES INC | NMNM073751 | NMSF080515B | 300390511700S1 | RIO ARRIBA | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Rio Puerco | ELM RIDGE RESOURCES INC | NMSF079354A | NMSF079354A | 300390539400S1 | RIO ARRIBA | Non-Federal | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Rio Puerco | ENERGEN RESOURCES CORP | NMNM28715 | NMNM28715 | 300392166600S1 | RIO ARRIBA | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Rio Puerco | ENERGEN RESOURCES CORP | NMNM78399A | NMSF078912 | 300392238300S1 | RIO ARRIBA | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Rio Puerco | ENERGEN RESOURCES CORP | NMSF079609 | NMSF079609 | 300392349300C2 | RIO ARRIBA | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Roswell | LIME ROCK RESOURCES A LP | NMNM32324 | NMNM32324 | 300056186400S1 | CHAVES | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Roswell | LIME ROCK RESOURCES A LP | NMNM33266 | NMNM33266 | 300056076900S1 | CHAVES | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Roswell | LIME ROCK RESOURCES A LP | NMNM36408 | NMNM36408 | 300056341300S1 | CHAVES | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Roswell | LIME ROCK RESOURCES A LP | NMNM72233 | NMNM40029 | 300056106500S1 | CHAVES | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Roswell | LIME ROCK RESOURCES A LP | NMNM72461 | NMNM40030 | 300056151800S1 | CHAVES | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |

Number of Wells Hydraulically Fractured and Relationship to Underground Sources of Drinking Water
(706 well sample)

| Field Office | Operator | Case Number | Lease Number | American Petroleum Institute Number | County | Surface Management Entity | Oil or Gas Well | Hydraulically Fractured? | Relationship to an Underground Source of Drinking Water (USDW) |
|--------------|---------------------------------|-------------|--------------|-------------------------------------|--------|---------------------------|-----------------|--------------------------|--|
| Roswell | THREE RIVERS OPERATING CO LLC | NMNM0559993 | NMNM0559993 | 300056371200S1 | CHAVES | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Roswell | YATES PETROLEUM CORPORATION | NMNM10588 | NMNM10588 | 300056344400S1 | CHAVES | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Roswell | YATES PETROLEUM CORPORATION | NMNM11593 | NMNM11593 | 300056285800S1 | CHAVES | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Roswell | YATES PETROLEUM CORPORATION | NMNM27970 | NMNM27970 | 300056120900S1 | CHAVES | Non-Federal | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Roswell | YATES PETROLEUM CORPORATION | NMNM28171 | NMNM28171 | 300056339200C1 | CHAVES | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Roswell | YATES PETROLEUM CORPORATION | NMNM28171 | NMNM28171 | 300056257500S1 | CHAVES | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Roswell | YATES PETROLEUM CORPORATION | NMNM72257 | NMNM28305 | 300056159100S1 | CHAVES | BLM | Gas | yes | ***Fractured, but not in, below or near an USDW |
| Moab | LONE MOUNTAIN PRODUCTION CO | UTU38033 | UTU38033 | 430193077300S1 | GRAND | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Price | BILL BARRETT CORPORATION | UTU63014D | UTU0681 | 430073147600S1 | CARBON | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Price | BILL BARRETT CORPORATION | UTU79487H | UTU73670 | 430073082800S1 | CARBON | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Vernal | EOG RESOURCES INC | UTU41368 | UTU41368 | 430473356200S1 | UINTAH | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Vernal | EOG RESOURCES INC | UTU63013BF | UTU0281 | 430473600100S1 | UINTAH | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Vernal | EOG RESOURCES INC | UTU63013BF | UTU0283A | 430473697600S1 | UINTAH | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Vernal | EOG RESOURCES INC | UTU63013BF | UTU0285A | 430473600500S1 | UINTAH | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Vernal | EOG RESOURCES INC | UTU63013BF | UTU0336A | 430474004300S1 | UINTAH | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Vernal | EOG RESOURCES INC | UTU63013BF | UTU0337 | 430473548000S1 | UINTAH | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Vernal | EOG RESOURCES INC | UTU63013BF | UTU0336B | 430473987200S1 | UINTAH | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Vernal | EOG RESOURCES INC | UTU63013BF | UTU0336 | 430473522600S1 | UINTAH | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Vernal | EOG RESOURCES INC | UTU63013BM | UTU0283A | 430473295300S1 | UINTAH | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Vernal | EOG RESOURCES INC | UTU63013BM | UTU0336A | 430473963900S1 | UINTAH | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Vernal | EOG RESOURCES INC | UTU76042 | UTU76042 | 430473895900S1 | UINTAH | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Vernal | KERR MC GEE OIL & GAS ONSHORE L | UTU469 | UTU469 | 430473571600S1 | UINTAH | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Vernal | KERR MC GEE OIL & GAS ONSHORE L | UTU63047A | UTU4485 | 430473307100S1 | UINTAH | Non-Federal | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Vernal | KERR MC GEE OIL & GAS ONSHORE L | UTU63047A | UTU01393D | 430473746800S1 | UINTAH | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Vernal | KERR MC GEE OIL & GAS ONSHORE L | UTU63047A | UTU01791 | 430473049800S1 | UINTAH | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Vernal | KERR MC GEE OIL & GAS ONSHORE L | UTU63047A | UTU01791 | 430473204900S1 | UINTAH | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Vernal | KERR MC GEE OIL & GAS ONSHORE L | UTU63047A | UTU0149079 | 430473528400S1 | UINTAH | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Vernal | KERR MC GEE OIL & GAS ONSHORE L | UTU63047A | UTU02270A | 430473520000S1 | UINTAH | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Vernal | KERR MC GEE OIL & GAS ONSHORE L | UTU63047A | UTU01191 | 430473710000S1 | UINTAH | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Vernal | KERR MC GEE OIL & GAS ONSHORE L | UTU63047A | UTU01191 | 430473852000S1 | UINTAH | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Vernal | KERR MC GEE OIL & GAS ONSHORE L | UTU63047A | UTU0582 | 430473701900S1 | UINTAH | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Vernal | KERR MC GEE OIL & GAS ONSHORE L | UTU63047A | UTU0576 | 430473415900S1 | UINTAH | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Vernal | KERR MC GEE OIL & GAS ONSHORE L | UTU63047A | UTU0359 | 430473599000S1 | UINTAH | BIA | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Vernal | KERR MC GEE OIL & GAS ONSHORE L | UTU71417 | UTU71417 | 430473812300S1 | UINTAH | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Vernal | QEP ENERGY COMPANY | UTU73686 | UTU73686 | 430473471000S1 | UINTAH | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Vernal | XTO ENERGY INC | UTU73011 | UTU73011 | 430473251500S1 | UINTAH | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Vernal | XTO ENERGY INC | UTU81878E | UTU34350 | 430473689200S1 | UINTAH | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Vernal | XTO ENERGY INC | UTU81878E | UTU73436 | 430473850400S1 | UINTAH | BLM | Gas | Yes | ***Fractured, but not in, below or near an USDW |
| Anchorage | MARATHON ALASKA PRODUCTION LLC | 891006367A | AKA028055 | 501332035100D2 | KENAI | Non-Federal | Gas | No | Not Fractured |

Number of Wells Hydraulically Fractured and Relationship to Underground Sources of Drinking Water
(706 well sample)

| Field Office | Operator | Case Number | Lease Number | American Petroleum Institute Number | County | Surface Management Entity | Oil or Gas Well | Hydraulically Fractured? | Relationship to an Underground Source of Drinking Water (USDW) |
|--------------|--------------------------------|-------------|--------------|-------------------------------------|------------|---------------------------|-----------------|--------------------------|--|
| Anchorage | MARATHON ALASKA PRODUCTION LLC | 891008868A | AKA028083 | 501332052500S1 | KENAI | USFWS | Gas | No | Not Fractured |
| Jackson | CHESAPEAKE OPERATING INC | LABLMA24527 | LABLMA24527 | 170150147900S3 | BOSSIER | MILITARY | Gas | No | Not Fractured |
| Milwaukee | COLLINS-MCGREGOR OPERATING | OHES50422 | OHES50422 | 341672683900S1 | WASHINGTON | USFS | Gas | No | Not Fractured |
| Great Falls | CROFT PETROLEUM COMPANY | MTM69622 | MTM37937 | 251012226100S1 | TOOLE | Non-Federal | Gas | No | Not Fractured |
| Great Falls | DEVON ENERGY PRODUCTION CO. | MTM68692H | MTM1492 | 250052246600S1 | BLAINE | Non-Federal | Gas | No | Not Fractured |
| Miles City | FIDELITY EXPL & PROD CO | MTM93119 | MTM62338 | 250032174700S1 | BIG HORN | Non-Federal | Gas | No | Not Fractured |
| Farmington | BP AMERICA PRODUCTION CO. | NMSF078040 | NMSF078040 | 300452800400S1 | SAN JUAN | BLM | Gas | No | Not Fractured |
| Farmington | CONOCOPHILLIPS COMPANY | NMNM78415D | NMSF081114 | 300392508100S1 | RIO ARRIBA | BLM | Gas | No | Not Fractured |
| Farmington | CONOCOPHILLIPS COMPANY | NMNM78416E | NMNM012698 | 300392785900S1 | RIO ARRIBA | Non-Federal | Gas | No | Not Fractured |
| Farmington | CONOCOPHILLIPS COMPANY | NMNM78424B | NMSF079047 | 300452813200S1 | SAN JUAN | BLM | Gas | No | Not Fractured |
| Farmington | CONOCOPHILLIPS COMPANY | NMSF078542 | NMSF078542 | 300452882200S1 | SAN JUAN | BLM | Gas | No | Not Fractured |
| Farmington | DEVON ENERGY PRODUCTION CO LP | NMNM78402D | NMSF079001A | 300393030801S1 | RIO ARRIBA | BOR | Gas | No | Not Fractured |
| Farmington | DEVON ENERGY PRODUCTION CO LP | NMNM78402D | NMSF079042 | 300453237500S1 | SAN JUAN | BOR | Gas | No | Not Fractured |
| Farmington | ENERVEST OPERATING LLC | NMSF078505 | NMSF078505 | 300453256100S1 | SAN JUAN | BLM | Gas | No | Not Fractured |
| Farmington | KUKUI OPERATING COMPANY | NMNM84064 | NMSF079596 | 300453164200S1 | SAN JUAN | BLM | Gas | No | Not Fractured |
| Farmington | KUKUI OPERATING COMPANY | NMSF077382 | NMSF077382 | 300453171300S1 | SAN JUAN | BLM | Gas | No | Not Fractured |
| Farmington | XTO ENERGY INC | NMNM013642 | NMNM013642 | 300452801100S1 | SAN JUAN | BLM | Gas | No | Not Fractured |
| Tulsa | ELLORA OPERATING LP | TXNM99997 | TXNM25666 | 424193073500S1 | SHELBY | USFS | Gas | No | Not Fractured |
| Moab | HANCOCK BURTON W | UTU04955 | UTU04955 | 430191548300S1 | GRAND | BLM | Gas | No | Not Fractured |
| Moab | RUNNING FOXES PETROLEUM INC | UTU0148171B | UTU0148171B | 430193099300S1 | GRAND | BLM | Gas | No | Not Fractured |
| Moab | RUNNING FOXES PETROLEUM INC | UTU75141 | UTU75141 | 430193061100S1 | GRAND | BLM | Gas | No | Not Fractured |
| Moab | SCHUSTER HOMES INC | UTU32574 | UTU32574 | 430193069100S1 | GRAND | BLM | Gas | No | Not Fractured |
| Buffalo | ANADARKO PETROLEUM CORP | WYW149537A | WYW134242 | 490192146000S1 | JOHNSON | BLM | Gas | No | Not Fractured |
| Buffalo | ANADARKO PETROLEUM CORP | WYW168720 | WYW134922 | 490192606800S1 | JOHNSON | Non-Federal | Gas | No | Not Fractured |
| Buffalo | LANCE OIL + GAS CO INC | WYW131201 | WYW131201 | 490054605100S1 | CAMPBELL | Non-Federal | Gas | No | Not Fractured |
| Buffalo | LANCE OIL + GAS CO INC | WYW132917 | WYW132917 | 490055021400S1 | CAMPBELL | Non-Federal | Gas | No | Not Fractured |
| Buffalo | LANCE OIL + GAS CO INC | WYW143991 | WYW143991 | 490054826000S1 | CAMPBELL | Non-Federal | Gas | No | Not Fractured |
| Buffalo | LANCE OIL + GAS CO INC | WYW146294 | WYW146294 | 490332580000S1 | SHERIDAN | Non-Federal | Gas | No | Not Fractured |
| Buffalo | LS ENERGY CORPORATION | WYW141872 | WYW141872 | 490192899200S1 | JOHNSON | Non-Federal | Gas | No | Not Fractured |
| Buffalo | MEDALLION EXPLORATION | WYW112922 | WYW112922 | 490053041000S1 | CAMPBELL | Non-Federal | Gas | No | Not Fractured |
| Buffalo | PATRIOT ENERGY RESOURCES LLC | WYW159927 | WYW0203041 | 490054904900S1 | CAMPBELL | Non-Federal | Gas | No | Not Fractured |
| Buffalo | PATRIOT ENERGY RESOURCES LLC | WYW80556 | WYW80556 | 490054728200S1 | CAMPBELL | Non-Federal | Gas | No | Not Fractured |
| Buffalo | PURE PETROLEUM LLC | WYW047610 | WYW047610 | 490054354300S1 | CAMPBELL | Non-Federal | Gas | No | Not Fractured |
| Buffalo | PURE PETROLEUM LLC | WYW96888 | WYW96888 | 490053818500S1 | CAMPBELL | Non-Federal | Gas | No | Not Fractured |
| Buffalo | RESOLUTE WYOMING, INC | WYW157482 | WYW0103392 | 490053743200S1 | CAMPBELL | Non-Federal | Gas | No | Not Fractured |
| Buffalo | USA EXPLORATION & PRODUCTION, | WYW3108 | WYW3108 | 490053763600S1 | CAMPBELL | Non-Federal | Gas | No | Not Fractured |
| Buffalo | WOLD OIL PROPERTIES, INC | WYW62643 | WYW62643 | 490192687900S1 | JOHNSON | BLM | Gas | No | Not Fractured |
| Buffalo | YATES PETROLEUM CORPORATION | WYW133605 | WYW133605 | 490055558500S1 | CAMPBELL | Non-Federal | Gas | No | Not Fractured |
| Buffalo | YATES PETROLEUM CORPORATION | WYW137115 | WYW137115 | 490192581100S1 | JOHNSON | Non-Federal | Gas | No | Not Fractured |

Number of Wells Hydraulically Fractured and Relationship to Underground Sources of Drinking Water
(706 well sample)

| Field Office | Operator | Case Number | Lease Number | American Petroleum Institute Number | County | Surface Management Entity | Oil or Gas Well | Hydraulically Fractured? | Relationship to an Underground Source of Drinking Water (USDW) |
|--------------|--------------------------------|-------------|--------------|-------------------------------------|------------|---------------------------|-----------------|--------------------------|--|
| Green River | CABOT OIL & GAS CORPORATION | WYW119581 | WYW54465 | 490372248600S1 | SWEETWATER | BLM | Gas | No | Not Fractured |
| Green River | WARREN E&P INCORPORATED | WYW160722A | WYW135071 | 490372609100S1 | SWEETWATER | BLM | Gas | No | Not Fractured |
| Lander | BURLINGTON RESOURCES O&G CO | WYW109587X | WYW13290 | 490132238800S1 | FREMONT | Non-Federal | Gas | No | Not Fractured |
| Lander | DEVON ENERGY PRODUCTION CO LP | WYW109416B | WYC048239 | 490130562400S1 | FREMONT | BLM | Gas | No | Not Fractured |
| Newcastle | WESCO OPERATING INCORPORATED | WYC066289 | WYC066289 | 490270560400S1 | NIOWRARA | BLM | Gas | No | Not Fractured |
| Pinedale | EOG RESOURCES INCORPORATED | WYE022769A | WYE022769A | 490350612000S1 | SUBLETTE | BLM | Gas | No | Not Fractured |
| Pinedale | EOG RESOURCES INCORPORATED | WYW0256492 | WYW0256492 | 490350568000S1 | SUBLETTE | BLM | Gas | No | Not Fractured |
| Pinedale | EOG RESOURCES INCORPORATED | WYW109419X | WYW01332 | 490352137100S1 | SUBLETTE | BLM | Gas | No | Not Fractured |
| Pinedale | EOG RESOURCES INCORPORATED | WYW109537B | WYW020123 | 490350533000S1 | SUBLETTE | BLM | Gas | No | Not Fractured |
| Roswell | ROSWELL OPERATING LLC. | NMNM32323 | NMNM32323 | 300056243200S1 | CHAVES | BLM | Gas | No | Not Fractured |
| Tulsa | EL PASO E&P COMPANY, LP | TXNM75292 | TXNM81996 | 424273292600S1 | STARR | USFS | Gas | No | Not Fractured |
| Bakersfield | VINTAGE PRODUCTION CA LLC | CACA26739X | CAS019301C | 040302148300S1 | KERN | BLM | Oil | Yes | Fractured below an USDW |
| Canon City | CHEYENNE OIL PROPERTIES INC | COC51850X | COC37479 | 050090645400S1 | BACA | USFS | Oil | Yes | Fractured below an USDW |
| Canon City | PETRO-CANADA RESOURCES | COC58278X | COC22405 | 051231394200S1 | WELD | USFS | Oil | Yes | Fractured below an USDW |
| Milwaukee | PETROX INC | OHES52131 | OHES52131 | 340732209800S1 | HOCKING | USFS | Oil | Yes | Fractured below an USDW |
| Buffalo | ANADARKO E&P COMPANY LP | WYW109596D | WYB044668 | 490190519900S1 | JOHNSON | Non-Federal | Oil | Yes | Fractured below an USDW |
| Buffalo | ANADARKO E&P COMPANY LP | WYW109720L | WYB037507 | 490190568900S2 | JOHNSON | BLM | Oil | Yes | Fractured below an USDW |
| Buffalo | ANADARKO PETROLEUM CORP | 8910210760 | WYW21220 | 490053065200S1 | CAMPBELL | Non-Federal | Oil | Yes | Fractured below an USDW |
| Buffalo | BLAKE, MARK A | WYW047611 | WYW047611 | 490052148900S1 | CAMPBELL | Non-Federal | Oil | Yes | Fractured below an USDW |
| Buffalo | ME OIL LTD LIABILITY CO | WYB044565 | WYB044565 | 490190510800S1 | JOHNSON | BLM | Oil | Yes | Fractured below an USDW |
| Buffalo | P&M PETROLEUM MGMT LLC | WYW29637 | WYW29637 | 490052352700S1 | CAMPBELL | Non-Federal | Oil | Yes | Fractured below an USDW |
| Buffalo | SM ENERGY COMPANY | WYW0314304 | WYW0314304 | 490052470500S1 | CAMPBELL | Non-Federal | Oil | Yes | Fractured below an USDW |
| Buffalo | SM ENERGY COMPANY | WYW110397 | WYW60865 | 490052721100S1 | CAMPBELL | Non-Federal | Oil | Yes | Fractured below an USDW |
| Buffalo | WHITING OIL & GAS CORP | WYW138274X | WYW47511 | 490192057500S1 | JOHNSON | Non-Federal | Oil | Yes | Fractured below an USDW |
| Buffalo | WYOIL CORP | 8910085270 | WYW02065A | 490190586200S1 | JOHNSON | Non-Federal | Oil | Yes | Fractured below an USDW |
| Casper | HOWELL PETROLEUM CORPORATION | WYW109800A | WYC036745 | 490252157000S1 | NATRONA | BLM | Oil | Yes | Fractured below an USDW |
| Casper | HYPERION OIL & GAS LLC | WYW56933B | WYW56933B | 490092292700S1 | CONVERSE | Non-Federal | Oil | Yes | Fractured below an USDW |
| Casper | SUNSHINE VALLEY PETROLEUM CORP | WYW34687 | WYW34687 | 490092039100S1 | CONVERSE | USFS | Oil | Yes | Fractured below an USDW |
| Lander | PETROLEUM RESOURCE MANAGEMENT | WYW109516A | WYW18032 | 490132115100S1 | FREMONT | BLM | Oil | Yes | Fractured below an USDW |
| Newcastle | CHEMILY MANAGEMENT COMPANY | WYW45675 | WYW45675 | 490452153600S1 | WESTON | Non-Federal | Oil | Yes | Fractured below an USDW |
| Newcastle | FARNSWORTH ENERGY LLC. | WYW21901 | WYW21901 | 490452143900S1 | WESTON | Non-Federal | Oil | Yes | Fractured below an USDW |
| Newcastle | KLABZUBA OIL & GAS INC | WYW55012 | WYW55012 | 490272031600S1 | NIOWRARA | BLM | Oil | Yes | Fractured below an USDW |
| Newcastle | M & K OIL COMPANY INCORPORATED | WYW133506 | WYW133506 | 490452904200S1 | WESTON | Non-Federal | Oil | Yes | Fractured below an USDW |
| Newcastle | ROCK WELL PETROLEUM (US) INC | 8910085820 | WYB022739H | 490450761400S1 | WESTON | BLM | Oil | Yes | Fractured below an USDW |
| Newcastle | SOONER OPERATING CO INC | WYW148196 | WYW148196 | 490272677000S1 | NIOWRARA | BLM | Oil | Yes | Fractured below an USDW |
| Newcastle | WELLSTAR CORPORATION | WYW27042 | WYW27042 | 490052576800S1 | CAMPBELL | BLM | Oil | Yes | Fractured below an USDW |
| Newcastle | WINTER RIDGE ENERGY LLC | 891008664A | WYW04305 | 490450639800S1 | WESTON | BLM | Oil | Yes | Fractured below an USDW |
| Newcastle | WINTER RIDGE ENERGY LLC | 891008664A | WYW012451 | 490450637800S1 | WESTON | Non-Federal | Oil | Yes | Fractured below an USDW |
| Pinedale | CHEVRON USA INC | WYW109425G | WYW026875 | 490350542300S1 | SUBLETTE | BLM | Oil | Yes | Fractured below an USDW |
| | | | | | | | | | Fractured below an USDW |

Number of Wells Hydraulically Fractured and Relationship to Underground Sources of Drinking Water
(706 well sample)

| Field Office | Operator | Case Number | Lease Number | American Petroleum Institute Number | County | Surface Management Entity | Oil or Gas Well | Hydraulically Fractured? | Relationship to an Underground Source of Drinking Water (USDW) |
|--------------|--------------------------------|-------------|--------------|-------------------------------------|-------------|---------------------------|-----------------|--------------------------|--|
| Rawlins | MERIT ENERGY COMPANY | WYW109745X | WYC029520B | 490372244800S1 | SWEETWATER | BLM | Oil | Yes | Fractured below an USDW |
| Worland | CITATION OIL & GAS CORPORATION | WYC068665 | WYC068665 | 490172044500S1 | HOT SPRINGS | BLM | Oil | Yes | Fractured below an USDW |
| Worland | CITATION OIL & GAS CORPORATION | WYC068665 | WYC068665 | 490172044500S1 | HOT SPRINGS | BLM | Oil | Yes | Fractured below an USDW |
| Worland | CITATION OIL & GAS CORPORATION | WYC068665 | WYC068665 | 490172035700D2 | HOT SPRINGS | BLM | Oil | Yes | Fractured below an USDW |
| Worland | CITATION OIL & GAS CORPORATION | WYW109577A | WYC045855 | 490172002600S2 | HOT SPRINGS | BLM | Oil | Yes | Fractured below an USDW |
| Worland | CITATION OIL & GAS CORPORATION | WYW112017X | WYW106210 | 490432066700S2 | WASHAKIE | BLM | Oil | Yes | Fractured below an USDW |
| Worland | CONTINENTAL RESOURCES INC | WYW109468D | WYW03996 | 490430530200S1 | WASHAKIE | BLM | Oil | Yes | Fractured below an USDW |
| Worland | CONTINENTAL RESOURCES INC | WYW109469X | WYW0325328 | 490432079200S1 | WASHAKIE | BLM | Oil | Yes | Fractured below an USDW |
| Worland | CONTINENTAL RESOURCES INC | WYW150172 | WYW0320078 | 490432039600S1 | WASHAKIE | BLM | Oil | Yes | Fractured below an USDW |
| Worland | ENCORE ENERGY PARTNERS OPERATI | WYW109502B | MTBIL033864 | 250090505500S1 | CARBON | BLM | Oil | Yes | Fractured below an USDW |
| Worland | MARATHON OIL COMPANY | WYC043977A | WYC043977A | 490292073100A4 | PARK | BLM | Oil | Yes | Fractured below an USDW |
| Worland | MARATHON OIL COMPANY | WYW109447X | WYC045662B | 490032105900S1 | BIG HORN | BLM | Oil | Yes | Fractured below an USDW |
| Worland | MARATHON OIL COMPANY | WYW109447X | WYC045662B | 490030642000S1 | BIG HORN | BLM | Oil | Yes | Fractured below an USDW |
| Worland | MARATHON OIL COMPANY | WYW109520A | WYC044769 | 490030627800S3 | BIG HORN | BLM | Oil | Yes | Fractured below an USDW |
| Worland | MERIT ENERGY COMPANY | WYW138881X | WYC044140 | 490170566500S1 | HOT SPRINGS | BLM | Oil | Yes | Fractured below an USDW |
| Bakersfield | CHEVRON U S A INCORPORATED | CAS019376 | CAS019376 | 040303620900S1 | KERN | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Bakersfield | CHEVRON U S A INCORPORATED | CAS019376 | CAS019376 | 040300340400S1 | KERN | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Bakersfield | HOLMES WESTERN OIL CORPORATION | CACA3279 | CACA3279 | 040297311800S1 | KERN | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Bakersfield | MACPHERSON OIL COMPANY | CACA34219X | CAS019701 | 040291821800S1 | KERN | Non-Federal | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Bakersfield | MACPHERSON OIL COMPANY | CACA34219X | CAS019847 | 040301774400S1 | KERN | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Bakersfield | OCCIDENTAL ELK HILLS INC | CAS019343 | CAS019343 | 040295120700S1 | KERN | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Bakersfield | OCCIDENTAL ELK HILLS INC | CAS019343 | CAS019343 | 040291117400S1 | KERN | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Bakersfield | PLAINS EXPL & PROD CO | CAS019314A | CAS019314A | 040303206000S1 | KERN | Non-Federal | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Bakersfield | SENECA RESOURCES CORPORATION | CALA0123733 | CALA0123733 | 041110274400S1 | VENTURA | USFS | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Bakersfield | SENECA RESOURCES CORPORATION | CALA0149292 | CALA0149292 | 041112027900S1 | VENTURA | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Bakersfield | SENECA RESOURCES CORPORATION | CALA037880B | CALA037880B | 041112001100S1 | VENTURA | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Canon City | PETRO-CANADA RESOURCES | COC58278X | COC29692A | 051231410500S1 | WELD | USFS | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | ALAMO PERMIAN RESOURCES LLC | NMLC028936C | NMLC028936C | 300150437200S1 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | ALAMO PERMIAN RESOURCES LLC | NMLC045818A | NMLC045818A | 300150139600S1 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | APACHE CORPORATION | NMLC029395A | NMLC029395A | 300152014200S1 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | APACHE CORPORATION | NMNM0467932 | NMNM0467932 | 300153025500S1 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | APOLLO ENERGY L P | NMLC050797 | NMLC050797 | 300150234600S1 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | APOLLO ENERGY L P | NMLC050797 | NMLC050797 | 300150618800S1 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | APOLLO ENERGY L P | NMLC050797 | NMLC050797 | 300150239300S1 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | ASHER ENTERPRISES LTD CO | NMNM70955X | NMLC028992G | 300150433200S1 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | BOPCO LP | NMNM02918 | NMNM02918 | 300153571200S1 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | BOPCO LP | NMNM02953C | NMNM02953C | 300153103300C2 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | BOPCO LP | NMNM70965F | NMNM02884A | 300153727300S1 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | BURNETT OIL COMPANY INC | NMLC029338A | NMLC029338A | 300153244800C2 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |

Number of Wells Hydraulically Fractured and Relationship to Underground Sources of Drinking Water
(706 well sample)

| Field Office | Operator | American Petroleum | | | | Surface Management Entity | Oil or Gas Well | Hydraulically Fractured? | Relationship to an Underground Source of Drinking Water (USDW) |
|--------------|--------------------------------|--------------------|--------------|------------------|--------|---------------------------|-----------------|--------------------------|--|
| | | Case Number | Lease Number | Institute Number | County | | | | |
| Carlsbad | BURNETT OIL COMPANY INC | NMLC030570A | NMLC030570A | 300153279300C1 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | CBS OPERATING CORPORATION | NMNM101360X | NMLC056302B | 300151027200S1 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | CFM OIL COMPANY, LOUIS FULTON | NMLC060122 | NMLC060122 | 300150097000S1 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | CHESAPEAKE OPERATING INC | NMNM0415688A | NMNM0415688A | 300153436000S1 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | CLAYTON WILLIAMS ENERGY, INC | NMNM14847 | NMNM14847 | 300153166000S1 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | COG OPERATING LLC | NMNM074935 | NMNM074935 | 300153542700S1 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | COG OPERATING LLC | NMNM71030C | NMNM98120 | 300153747400S1 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | COG OPERATING LLC | NMNM81622 | NMNM81622 | 300153425400S1 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | COG OPERATING LLC | NMNM88525X | NMLC028784B | 300153618100S1 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | COG OPERATING LLC | NMNM88525X | NMLC028793A | 300152764600S1 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | COG OPERATING LLC | NMNM88525X | NMLC028793A | 300153063300S1 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | DEVON ENERGY PRODUCTION CO L P | NMLC028755A | NMLC028755A | 300153044000C2 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | DEVON ENERGY PRODUCTION CO L P | NMLC028755A | NMLC028755A | 300153044000C2 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | DEVON ENERGY PRODUCTION CO L P | NMLC050158 | NMLC050158 | 300153323500S1 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | DEVON ENERGY PRODUCTION CO L P | NMLC067849 | NMLC067849 | 300153326200C2 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | DEVON ENERGY PRODUCTION CO L P | NMLC069274 | NMLC069274 | 300150079900S1 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | DEVON ENERGY PRODUCTION CO L P | NMNM0405444 | NMNM0405444 | 300153310500S1 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | DEVON ENERGY PRODUCTION CO L P | NMNM0405444A | NMNM0405444A | 300152098600S1 | EDDY | Non-Federal | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | DEVON ENERGY PRODUCTION CO L P | NMNM117945 | NMNM81953 | 300153475600S1 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | DEVON ENERGY PRODUCTION CO L P | NMNM33437A | NMNM33437A | 300152624500S1 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | DEVON ENERGY PRODUCTION CO L P | NMNM89156 | NMNM89156 | 300152904900S1 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | ENDURANCE RESOURCES LLC | NMNM106714 | NMNM106714 | 300152962400S1 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | ENDURANCE RESOURCES LLC | NMNM70930X | NMLC063613 | 300150458500S1 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | EXXONMOBIL CORPORATION | NMNM94450X | NMNM01119 | 300152868200S1 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | FAIRWAY RESOURCES | NMLC055561 | NMLC055561 | 300153562000S1 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | FINNEY OIL COMPANY | NMLC067849 | NMLC067849 | 300150061200S1 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | LIMEROCK RESOURCES A, L.P. | NMNM048344 | NMNM048344 | 300153420000S1 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | LINN OPERATING INC. | NMLC029426B | NMLC029426B | 300152829900S1 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | MACK ENERGY CORPORATION | NMNM77951X | NMNM05186 | 300152446400S1 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | MACK ENERGY CORPORATION | NMNM98171 | NMNM98171 | 300153540900S1 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | NADEL AND GUSSMAN HEYCO, LLC | NMNM89879 | NMNM89879 | 300153643900S1 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | NADEL AND GUSSMAN HEYCO, LLC | NMNM91308 | NMNM91308 | 300152619700S1 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | OXY USA INC | NMNM38464 | NMNM38464 | 300152724300S1 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | OXY USA INC | NMNM43744 | NMNM43744 | 300152793600S1 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | OXY USA INC | NMNM43744 | NMNM43744 | 300152749900S1 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | OXY USA INC | NMNM62589 | NMNM62589 | 300153734000S1 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | SANDRIDGE EXPLORATION AND PROD | NMNM70993X | NMLC028978B | 300150456300S1 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | ST MARY LAND & EXPLORATION CO | NMNM88491X | NMNM24160 | 300153307200S1 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Carlsbad | XTO ENERGY INC | NMNM70992C | NMNM19246 | 300152699200S1 | EDDY | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |

Number of Wells Hydraulically Fractured and Relationship to Underground Sources of Drinking Water
(706 well sample)

| Field Office | Operator | Case Number | Lease Number | American Petroleum Institute Number | | County | Surface Management Entity | Oil or Gas Well | Hydraulically Fractured? | Relationship to an Underground Source of Drinking Water (USDW) |
|--------------|--------------------------------|-------------|--------------|-------------------------------------|------------|-------------|---------------------------|-----------------|--------------------------|--|
| | | | | | | | | | | |
| Carlsbad | YATES PETROLEUM CORPORATION | NMLC028990B | NMLC028990B | 300152023400S1 | EDDY | BLM | Oil | Yes | | ***Fractured, but not in, below or near an USDW |
| Carlsbad | YATES PETROLEUM CORPORATION | NMNM12832 | NMNM12832 | 300152050700S1 | EDDY | BLM | Oil | Yes | | ***Fractured, but not in, below or near an USDW |
| Farmington | BURLINGTON RESOURCES O&G CO LP | NMNM09979 | NMNM09979 | 300452481600C2 | SAN JUAN | BIA | Oil | Yes | | ***Fractured, but not in, below or near an USDW |
| Farmington | BURLINGTON RESOURCES O&G CO LP | NMNM73103 | NMNM020982 | 300452572100S2 | SAN JUAN | BLM | Oil | Yes | | ***Fractured, but not in, below or near an USDW |
| Farmington | DUGAN PRODUCTION CORPORATION | NMNM29560 | NMNM29560 | 300452443900S1 | SAN JUAN | BLM | Oil | Yes | | ***Fractured, but not in, below or near an USDW |
| Farmington | ENERGEN RESOURCES CORPORATION | NMSF080724A | NMSF080724A | 300452550400S1 | SAN JUAN | BLM | Oil | Yes | | ***Fractured, but not in, below or near an USDW |
| Farmington | PARKER & PARKER OIL & GAS INC | NMNM58871 | NMNM58871 | 300432094500S1 | SANDOVAL | BLM | Oil | Yes | | ***Fractured, but not in, below or near an USDW |
| Farmington | QUESTAR EXPL & PROD CO | NMSF078562 | NMSF078562 | 300390538100S1 | RIO ARRIBA | BLM | Oil | Yes | | ***Fractured, but not in, below or near an USDW |
| Hobbs | APACHE CORPORATION | NMNM89874 | NMNM89874 | 300250422800S1 | LEA | Non-Federal | Oil | Yes | | ***Fractured, but not in, below or near an USDW |
| Hobbs | APACHE CORPORATION | NMNM90161 | NMNM90161 | 300253588200S1 | LEA | Non-Federal | Oil | Yes | | ***Fractured, but not in, below or near an USDW |
| Hobbs | CHESAPEAKE OPERATING INC | NMNM67986 | NMNM67986 | 300252784600S2 | LEA | BLM | Oil | Yes | | ***Fractured, but not in, below or near an USDW |
| Hobbs | CHEVRON USA INCORPORATED | NMLC032104 | NMLC032104 | 300252092400C1 | LEA | Non-Federal | Oil | Yes | | ***Fractured, but not in, below or near an USDW |
| Hobbs | CHEVRON USA INCORPORATED | NMLC032104 | NMLC032104 | 300251217700C2 | LEA | Non-Federal | Oil | Yes | | ***Fractured, but not in, below or near an USDW |
| Hobbs | COG OPERATING LLC | NMLC029405A | NMLC029405A | 300253872400S1 | LEA | BLM | Oil | Yes | | ***Fractured, but not in, below or near an USDW |
| Hobbs | COG OPERATING LLC | NMLC029405A | NMLC029405A | 300253881400S1 | LEA | BLM | Oil | Yes | | ***Fractured, but not in, below or near an USDW |
| Hobbs | CONOCOPHILLIPS COMPANY | NMLC031740B | NMLC031740B | 300253427000C2 | LEA | Non-Federal | Oil | Yes | | ***Fractured, but not in, below or near an USDW |
| Hobbs | CONOCOPHILLIPS COMPANY | NMNM70987A | NMLC029509A | 300250061100S1 | LEA | BLM | Oil | Yes | | ***Fractured, but not in, below or near an USDW |
| Hobbs | CONOCOPHILLIPS COMPANY | NMNM70987A | NMLC057210 | 300253787900S1 | LEA | BLM | Oil | Yes | | ***Fractured, but not in, below or near an USDW |
| Hobbs | CONOCOPHILLIPS COMPANY | NMNM70987A | NMLC059001 | 300252398400S1 | LEA | BLM | Oil | Yes | | ***Fractured, but not in, below or near an USDW |
| Hobbs | CONOCOPHILLIPS COMPANY | NMNM71052A | NMLC031670B | 300250783000S1 | LEA | Non-Federal | Oil | Yes | | ***Fractured, but not in, below or near an USDW |
| Hobbs | CONOCOPHILLIPS COMPANY | NMNM71052E | NMLC031670B | 300252585400S3 | LEA | Non-Federal | Oil | Yes | | ***Fractured, but not in, below or near an USDW |
| Hobbs | CONOCOPHILLIPS COMPANY | NMNM71052E | NMLC031695B | 300252710500S1 | LEA | Non-Federal | Oil | Yes | | ***Fractured, but not in, below or near an USDW |
| Hobbs | EOG RESOURCES INCORPORATED | NMLC064944 | NMLC064944 | 300253058000C1 | LEA | BLM | Oil | Yes | | ***Fractured, but not in, below or near an USDW |
| Hobbs | J & J SERVICES INCORPORATED | NMNM04411 | NMNM04411 | 300250270200S1 | LEA | Non-Federal | Oil | Yes | | ***Fractured, but not in, below or near an USDW |
| Hobbs | J & J SERVICES INCORPORATED | NMNM04411 | NMNM04411 | 300250270200S1 | LEA | Non-Federal | Oil | Yes | | ***Fractured, but not in, below or near an USDW |
| Hobbs | LEGACY RESERVES OPERATING LP | NMNM71009X | NMLC064098 | 300250084500S1 | LEA | BLM | Oil | Yes | | ***Fractured, but not in, below or near an USDW |
| Hobbs | LEGACY RESERVES OPERATING LP | NMNM87877X | NMLC032511F | 300253232100S1 | LEA | Non-Federal | Oil | Yes | | ***Fractured, but not in, below or near an USDW |
| Hobbs | LINN OPERATING INCORPORATED | NMNM70989C | NMNM05519 | 300252179800S1 | LEA | Non-Federal | Oil | Yes | | ***Fractured, but not in, below or near an USDW |
| Hobbs | MCELVAIN OIL & GAS PROP INC | NMNM0245247 | NMNM0245247 | 300253804000S3 | LEA | BLM | Oil | Yes | | ***Fractured, but not in, below or near an USDW |
| Hobbs | MCELVAIN OIL & GAS PROP INC | NMNM0245247 | NMNM0245247 | 300252905100S2 | LEA | BLM | Oil | Yes | | ***Fractured, but not in, below or near an USDW |
| Hobbs | NADEL & GUSSMAN HEYCO LLC | NMNM63365 | NMNM63365 | 300253014600S1 | LEA | Non-Federal | Oil | Yes | | ***Fractured, but not in, below or near an USDW |
| Hobbs | OCCIDENTAL PERMIAN LIMITED | NMNM71037D | NMNM0321613 | 300251111700S1 | LEA | Non-Federal | Oil | Yes | | ***Fractured, but not in, below or near an USDW |
| Hobbs | TANDEM ENERGY CORPORATION | NMNM63368 | NMNM63368 | 300253020900S1 | LEA | BLM | Oil | Yes | | ***Fractured, but not in, below or near an USDW |
| Roswell | CANO PETRO OF NM INC | NMNM14154 | NMNM14154 | 300412044200S1 | ROOSEVELT | BLM | Oil | Yes | | ***Fractured, but not in, below or near an USDW |
| Vernal | CITATION OIL & GAS CORPORATION | UTU66837A | UTSL066312 | 430473154200S1 | UINTAH | BLM | Oil | Yes | | ***Fractured, but not in, below or near an USDW |
| Vernal | GASCO PRODUCTION COMPANY | UTU013429A | UTU013429A | 430473135700S1 | UINTAH | BLM | Oil | Yes | | ***Fractured, but not in, below or near an USDW |
| Vernal | NEWFIELD EXPLORATION COMPANY | UTU87538X | UTU67170 | 430133325200S1 | DUCHESNE | BLM | Oil | Yes | | ***Fractured, but not in, below or near an USDW |
| Vernal | NEWFIELD EXPLORATION COMPANY | UTU87538X | UTU16535 | 430135024000S1 | DUCHESNE | BLM | Oil | Yes | | ***Fractured, but not in, below or near an USDW |
| Vernal | NEWFIELD EXPLORATION COMPANY | UTU87538X | UTU77233 | 430135002200S1 | DUCHESNE | Non-Federal | Oil | Yes | | ***Fractured, but not in, below or near an USDW |

Number of Wells Hydraulically Fractured and Relationship to Underground Sources of Drinking Water
(706 well sample)

| Field Office | Operator | Case Number | Lease Number | American Petroleum Institute Number | County | Surface Management Entity | Oil or Gas Well | Hydraulically Fractured? | Relationship to an Underground Source of Drinking Water (USDW) |
|--------------|------------------------------|-------------|--------------|-------------------------------------|----------|---------------------------|-----------------|--------------------------|--|
| Vernal | NEWFIELD EXPLORATION COMPANY | UTU87538X | UTU77233 | 430133158800S1 | DUCHESNE | Non-Federal | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Vernal | NEWFIELD EXPLORATION COMPANY | UTU87538X | UTU36846 | 430473619100S1 | UINTAH | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Vernal | NEWFIELD EXPLORATION COMPANY | UTU87538X | UTU74826 | 430133217000S1 | DUCHESNE | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Vernal | NEWFIELD EXPLORATION COMPANY | UTU87538X | UTU66184 | 430133245600S1 | DUCHESNE | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Vernal | NEWFIELD EXPLORATION COMPANY | UTU87538X | UTU68548 | 430133266900S1 | DUCHESNE | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Vernal | NEWFIELD EXPLORATION COMPANY | UTU87538X | UTU68548 | 430133398600S1 | DUCHESNE | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Vernal | NEWFIELD EXPLORATION COMPANY | UTU87538X | UTU52018 | 430133303400S1 | DUCHESNE | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Vernal | NEWFIELD EXPLORATION COMPANY | UTU87538X | UTU15855 | 430133318300S1 | DUCHESNE | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Vernal | NEWFIELD EXPLORATION COMPANY | UTU87538X | UTU39713 | 430473574800S1 | UINTAH | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Vernal | NEWFIELD EXPLORATION COMPANY | UTU87538X | UTU72106 | 430133263700S1 | DUCHESNE | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Vernal | NEWFIELD EXPLORATION COMPANY | UTU87538X | UTU84233 | 430473926500S1 | UINTAH | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Vernal | NEWFIELD EXPLORATION COMPANY | UTU87538X | UTU16540 | 430473611800S1 | UINTAH | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Vernal | QEP ENERGY COMPANY | UTU28652 | UTU28652 | 430473468500S1 | UINTAH | BLM | Oil | Yes | ***Fractured, but not in, below or near an USDW |
| Bakersfield | AERA ENERGY LLC | CACA28423 | CACA28423 | 040303864500S1 | KERN | BLM | Oil | No | Not Fractured |
| Bakersfield | AERA ENERGY LLC | CACA28423 | CACA28423 | 040292130100S1 | KERN | BLM | Oil | No | Not Fractured |
| Bakersfield | AERA ENERGY LLC | CACA28423 | CACA28423 | 040298356800S1 | KERN | BLM | Oil | No | Not Fractured |
| Bakersfield | AERA ENERGY LLC | CALA076208 | CALA076208 | 040302227100S1 | KERN | Non-Federal | Oil | No | Not Fractured |
| Bakersfield | AERA ENERGY LLC | CALA076208 | CALA076208 | 040297041600S1 | KERN | Non-Federal | Oil | No | Not Fractured |
| Bakersfield | AERA ENERGY LLC | CAS019357 | CAS019357 | 040300355400S1 | KERN | BLM | Oil | No | Not Fractured |
| Bakersfield | AERA ENERGY LLC | CAS019357 | CAS019357 | 040301987600S1 | KERN | BLM | Oil | No | Not Fractured |
| Bakersfield | AERA ENERGY LLC | CAS019392 | CAS019392 | 040303961000S1 | KERN | BLM | Oil | No | Not Fractured |
| Bakersfield | AERA ENERGY LLC | CAS019392 | CAS019392 | 040303826300S1 | KERN | BLM | Oil | No | Not Fractured |
| Bakersfield | AERA ENERGY LLC | CAS019392 | CAS019392 | 040303825800S1 | KERN | BLM | Oil | No | Not Fractured |
| Bakersfield | AERA ENERGY LLC | CAS019392 | CAS019392 | 040296287900S1 | KERN | BLM | Oil | No | Not Fractured |
| Bakersfield | AERA ENERGY LLC | CAS019392 | CAS019392 | 040297578500S1 | KERN | BLM | Oil | No | Not Fractured |
| Bakersfield | AERA ENERGY LLC | CAS019392 | CAS019392 | 040302003100X1 | KERN | BLM | Oil | No | Not Fractured |
| Bakersfield | AERA ENERGY LLC | CAS021592 | CAS021592 | 040291379000S1 | KERN | BLM | Oil | No | Not Fractured |
| Bakersfield | AERA ENERGY LLC | CAS021592 | CAS021592 | 040300795100S1 | KERN | BLM | Oil | No | Not Fractured |
| Bakersfield | AERA ENERGY LLC | CAS021592 | CAS021592 | 040296002801S1 | KERN | BLM | Oil | No | Not Fractured |
| Bakersfield | AERA ENERGY LLC | CAS021592 | CAS021592 | 040297445300S1 | KERN | BLM | Oil | No | Not Fractured |
| Bakersfield | AERA ENERGY LLC | CAS021592 | CAS021592 | 040298144001S1 | KERN | BLM | Oil | No | Not Fractured |
| Bakersfield | AERA ENERGY LLC | CAS021593 | CAS021593 | 040298685800S1 | KERN | BLM | Oil | No | Not Fractured |
| Bakersfield | BERRY PETROLEUM COMPANY | CAS019636 | CAS019636 | 040304171700S1 | KERN | BLM | Oil | No | Not Fractured |
| Bakersfield | BERRY PETROLEUM COMPANY | CAS019850C | CAS019850C | 040291472500S2 | KERN | Non-Federal | Oil | No | Not Fractured |
| Bakersfield | BERRY PETROLEUM COMPANY | CAS037269 | CAS037269 | 040303570100S1 | KERN | BLM | Oil | No | Not Fractured |
| Bakersfield | BERRY PETROLEUM COMPANY | CAS037269 | CAS037269 | 040295655700S1 | KERN | BLM | Oil | No | Not Fractured |
| Bakersfield | CHEVRON U S A INCORPORATED | CAS019349 | CAS019349 | 040295033900S1 | KERN | BLM | Oil | No | Not Fractured |
| Bakersfield | CHEVRON U S A INCORPORATED | CAS019349 | CAS019349 | 040296571000S1 | KERN | BLM | Oil | No | Not Fractured |
| Bakersfield | CHEVRON U S A INCORPORATED | CAS019381A | CAS019381A | 040292316400S1 | KERN | BLM | Oil | No | Not Fractured |

Number of Wells Hydraulically Fractured and Relationship to Underground Sources of Drinking Water
(706 well sample)

| Field Office | Operator | Case Number | Lease Number | American Petroleum Institute Number | County | Surface Management Entity | Oil or Gas Well | Hydraulically Fractured? | Relationship to an Underground Source of Drinking Water (USDW) |
|--------------|--------------------------------|-------------|---------------|-------------------------------------|----------------------|---------------------------|-----------------|--------------------------|--|
| Bakersfield | CHEVRON U S A INCORPORATED | CAS019381A | CAS019381A | 040300493500S1 | KERN | BLM | Oil | No | Not Fractured |
| Bakersfield | CHEVRON U S A INCORPORATED | CAS019382 | CAS019382 | 040297165600S1 | KERN | BLM | Oil | No | Not Fractured |
| Bakersfield | CHEVRON U S A INCORPORATED | CAS019382 | CAS019382 | 040297166500S1 | KERN | BLM | Oil | No | Not Fractured |
| Bakersfield | CHEVRON U S A INCORPORATED | CAS019382 | CAS019382 | 040303990200S1 | KERN | BLM | Oil | No | Not Fractured |
| Bakersfield | CHEVRON U S A INCORPORATED | CAS019382 | CAS019382 | 040297166800S1 | KERN | BLM | Oil | No | Not Fractured |
| Bakersfield | CHEVRON U S A INCORPORATED | CAS019382 | CAS019382 | 040300833800S1 | KERN | BLM | Oil | No | Not Fractured |
| Bakersfield | CHEVRON U S A INCORPORATED | CAS019382 | CAS019382 | 040298612000S1 | KERN | BLM | Oil | No | Not Fractured |
| Bakersfield | CHEVRON U S A INCORPORATED | CAS019382 | CAS019382 | 040302031400S1 | KERN | BLM | Oil | No | Not Fractured |
| Bakersfield | CHEVRON U S A INCORPORATED | CAS019382 | CAS019382 | 040301306500S1 | KERN | BLM | Oil | No | Not Fractured |
| Bakersfield | CHEVRON U S A INCORPORATED | CAS019382 | CAS019382 | 040300951800S1 | KERN | BLM | Oil | No | Not Fractured |
| Bakersfield | CHEVRON U S A INCORPORATED | CAS019382 | CAS019382 | 040296272200S1 | KERN | BLM | Oil | No | Not Fractured |
| Bakersfield | CHEVRON U S A INCORPORATED | CAS064676 | CAS064676 | 040301193100S1 | KERN | Non-Federal | Oil | No | Not Fractured |
| Bakersfield | H L HALL & SONS | CALA032837 | CALA032837 | 040292532800S1 | KERN | BLM | Oil | No | Not Fractured |
| Bakersfield | HOLMES BRUCE A | CALA033054 | CALA033054 | 040302289000S1 | KERN | Non-Federal | Oil | No | Not Fractured |
| Bakersfield | HOLMES WESTERN OIL CORPORATION | CALA033068 | CALA033068 | 040300399500S1 | KERN | BLM | Oil | No | Not Fractured |
| Bakersfield | HOLMES WESTERN OIL CORPORATION | CALA033068 | CALA033068 | 040291935300S1 | KERN | BLM | Oil | No | Not Fractured |
| Bakersfield | HOLMES WESTERN OIL CORPORATION | CAS066175 | CAS066175 | 040310004600S1 | KINGS | Non-Federal | Oil | No | Not Fractured |
| Bakersfield | OCCIDENTAL ELK HILLS INC | CAS019383C | CAS019383C | 040293718500S1 | KERN | BLM | Oil | No | Not Fractured |
| Bakersfield | PETRO RESOURCES INCORPORATED | CAS036952 | CAS036952 | 040296989900S1 | KERN | Non-Federal | Oil | No | Not Fractured |
| Bakersfield | PLAINS EXPL & PROD CO | CACA24529X | CAS020995 | 040296741200S1 | KERN | BLM | Oil | No | Not Fractured |
| Bakersfield | PLAINS EXPL & PROD CO | CAS019642 | CAS019642 | 040304153600S1 | KERN | BLM | Oil | No | Not Fractured |
| Bakersfield | TERMO COMPANY | CAS5672 | CAS5672 | 040371169300S1 | LOS ANGELES | BLM | Oil | No | Not Fractured |
| Bakersfield | TERMO COMPANY | CAS5672 | CAS5672 | 040372233600S1 | LOS ANGELES | BLM | Oil | No | Not Fractured |
| Bakersfield | VINTAGE PETROLEUM LLC | CALA055052 | CALA055052 | 041110323600S1 | VENTURA | BLM | Oil | No | Not Fractured |
| Bakersfield | VINTAGE PETROLEUM LLC | CAS037936 | CAS037936 | 040294663800S1 | KERN | Non-Federal | Oil | No | Not Fractured |
| Craig | BONANZA CREEK ENERGY OP CO LLC | COC47650C | COD028963 | 050570636700S1 | JACKSON | BLM | Oil | No | Not Fractured |
| Meeker | C&J FIELD SERVICES | COC034894 | COC034894 | 051030793100S1 | RIO BLANCO | BLM | Oil | No | Not Fractured |
| Jackson | TEXAS PETROLEUM INVESTMENT | LAES380061 | LABLMFW13046 | 170750067300S3 | PLAQUEMINES ON USFWS | Oil | No | No | Not Fractured |
| Jackson | XTO ENERGY INCORPORATED | LAES45338 | LAES25317 | 170272181500S1 | CLAIBORNE | USFS | Oil | No | Not Fractured |
| Dickinson | ENCORE OPERATING LP | NDM82212 | NDM32739 | 330530141200S1 | MCKENZIE | USFS | Oil | No | Not Fractured |
| Dickinson | HESS CORPORATION | 891012493A | NDBLMA025902A | 330070002800S1 | BILLINGS | USFS | Oil | No | Not Fractured |
| Dickinson | PETRO-HUNT LLC | 891008777A | NDBLM016442 | 330530281300S1 | MCKENZIE | USFS | Oil | No | Not Fractured |
| Dickinson | ST MARY LAND & EXPL CO | NDM85685X | NDM85005 | 330530078200S1 | MCKENZIE | USFS | Oil | No | Not Fractured |
| Miles City | ENCORE OPERATING LP | 8920008660 | MTBIL042114A | 250792103300S2 | PRAIRIE | Non-Federal | Oil | No | Not Fractured |
| Miles City | ENCORE OPERATING LP | 892000866A | MTBIL041195A | 251090511900S1 | WIBAUX | BLM | Oil | No | Not Fractured |
| Miles City | ENCORE OPERATING LP | MTM82041 | MTBIL036587A | 250252159500S1 | FALLON | Non-Federal | Oil | No | Not Fractured |
| Miles City | ENCORE OPERATING LP | MTM91311 | MTBIL025077B | 250252196200S1 | FALLON | BLM | Oil | No | Not Fractured |
| Moab | SOAL LLC | UTU15049 | UTU15049 | 430193080000S1 | GRAND | BLM | Oil | No | Not Fractured |
| Salt Lake | WOLVERINE GAS & OIL CO OF UT | UTU80800A | UTU73528 | 430413003300S1 | SEVIER | BLM | Oil | No | Not Fractured |

Number of Wells Hydraulically Fractured and Relationship to Underground Sources of Drinking Water
(706 well sample)

| Field Office | Operator | Case Number | Lease Number | American Petroleum Institute Number | County | Surface Management Entity | Oil or Gas Well | Hydraulically Fractured? | Relationship to an Underground Source of Drinking Water (USDW) |
|--------------|--------------------------------|-------------|--------------|-------------------------------------|-------------|---------------------------|-----------------|--------------------------|--|
| Vernal | QEP ENERGY COMPANY | UTU67951A | UTU68219 | 430473492700S1 | UINTAH | BLM | Oil | No | Not Fractured |
| Buffalo | ABRAXAS PETROLEUM CORPORATION | 8910210950 | WYW040443D | 490050562500S1 | CAMPBELL | BLM | Oil | No | Not Fractured |
| Buffalo | ADAMS H D & CAROLYN B | WYW25963 | WYW25963 | 490452151200S1 | CONVERSE | Non-Federal | Oil | No | Not Fractured |
| Buffalo | ANADARKO E&P COMPANY LP | WYW109720W | WYB041577 | 490190557300S1 | JOHNSON | Non-Federal | Oil | No | Not Fractured |
| Buffalo | ANADARKO E&P COMPANY LP | WYW109753A | WYB042385 | 490192056300S1 | JOHNSON | BLM | Oil | No | Not Fractured |
| Buffalo | CITATION OIL & GAS CORPORATION | WYW58944 | WYW58944 | 490052685800S1 | CAMPBELL | BLM | Oil | No | Not Fractured |
| Buffalo | P&M PETROLEUM MGMT LLC | 8910124700 | WYW2488 | 490052133600S1 | CAMPBELL | Non-Federal | Oil | No | Not Fractured |
| Buffalo | PATHFINDER ENERGY INC | WYW48676 | WYW48676 | 490052862500S1 | CAMPBELL | Non-Federal | Oil | No | Not Fractured |
| Buffalo | RESOLUTE WYOMING, INC | 891012381A | WYW068134F | 490052210100S1 | CAMPBELL | Non-Federal | Oil | No | Not Fractured |
| Buffalo | TRUE OIL LLC | WYW106645X | WYW0313874 | 490052232200S1 | CAMPBELL | BLM | Oil | No | Not Fractured |
| Buffalo | WINDSOR ENERGY GROUP LLC | 8910124120 | WYW043749 | 490052106700S1 | CAMPBELL | Non-Federal | Oil | No | Not Fractured |
| Casper | ANTELOPE RESOURCES INC | WYW03798D | WYW03798D | 490250946500S1 | NATRONA | Non-Federal | Oil | No | Not Fractured |
| Casper | ARNELL OIL COMPANY | WYC036770 | WYC036770 | 490252356600S1 | NATRONA | BLM | Oil | No | Not Fractured |
| Casper | FOSSIL ENERGY INC | WYW31808 | WYW31808 | 490252073600S1 | NATRONA | Non-Federal | Oil | No | Not Fractured |
| Casper | FOSSIL ENERGY INC | WYW86091 | WYW86091 | 490250712000S1 | NATRONA | Non-Federal | Oil | No | Not Fractured |
| Casper | HOWELL PETROLEUM CORPORATION | WYW109800A | WYC036905A | 490250009800S1 | NATRONA | BLM | Oil | No | Not Fractured |
| Casper | HOWELL PETROLEUM CORPORATION | WYW109800A | WYC036928B | 490250912100S2 | NATRONA | BLM | Oil | No | Not Fractured |
| Casper | HOWELL PETROLEUM CORPORATION | WYW109800A | WYC036922 | 490250908500S1 | NATRONA | BLM | Oil | No | Not Fractured |
| Casper | HOWELL PETROLEUM CORPORATION | WYW109800A | WYC036932B | 490250888400S2 | NATRONA | BLM | Oil | No | Not Fractured |
| Casper | HOWELL PETROLEUM CORPORATION | WYW109800A | WYC060520 | 490250900500S1 | NATRONA | BLM | Oil | No | Not Fractured |
| Casper | HOWELL PETROLEUM CORPORATION | WYW109800A | WYC036747B | 490250876100S1 | NATRONA | BLM | Oil | No | Not Fractured |
| Casper | HOWELL PETROLEUM CORPORATION | WYW109800A | WYC037034C | 490252129500S1 | NATRONA | BLM | Oil | No | Not Fractured |
| Casper | HOWELL PETROLEUM CORPORATION | WYW109800A | WYC036893B | 490252157100S1 | NATRONA | BLM | Oil | No | Not Fractured |
| Casper | HOWELL PETROLEUM CORPORATION | WYW109800A | WYC060526 | 490252229400S1 | NATRONA | BLM | Oil | No | Not Fractured |
| Casper | HOWELL PETROLEUM CORPORATION | WYW109800A | WYC039320 | 490252188400S1 | NATRONA | BLM | Oil | No | Not Fractured |
| Casper | HOWELL PETROLEUM CORPORATION | WYW109800A | WYC036894A | 490252163900S1 | NATRONA | BLM | Oil | No | Not Fractured |
| Casper | IRON CREEK PROPERTIES, INC | WYC036809 | WYC036809 | 490252336100S1 | NATRONA | BLM | Oil | No | Not Fractured |
| Casper | MATRIX PRODUCTION COMPANY | WYW110831 | WYW35690 | 490092117800S1 | CONVERSE | Non-Federal | Oil | No | Not Fractured |
| Casper | OSBORN HEIRS COMPANY | WYW110477 | WYW90961 | 490092253000D1 | CONVERSE | Non-Federal | Oil | No | Not Fractured |
| Casper | SAMSON RESOURCES COMPANY | WYW129796 | WYW87865 | 490092278900S1 | CONVERSE | Non-Federal | Oil | No | Not Fractured |
| Casper | SUNSHINE VALLEY PETROLEUM CORP | WYW110302 | WYW30207 | 490092198200S1 | CONVERSE | USFS | Oil | No | Not Fractured |
| Kemmerer | CHEVRON U.S.A. INC | WYW109640C | WYW34525 | 490412101500S1 | UINTA | BLM | Oil | No | Not Fractured |
| Lander | CITATION OIL & GAS CORPORATION | WYC044067 | WYC044067 | 490130528800S1 | FREMONT | Non-Federal | Oil | No | Not Fractured |
| Lander | US ORE CORP | WYC030080A | WYC030080A | 490130514700S1 | FREMONT | BLM | Oil | No | Not Fractured |
| Newcastle | FARNSWORTH ENERGY LLC. | WYW21902B | WYW21902B | 490452196500S1 | WESTON | Non-Federal | Oil | No | Not Fractured |
| Newcastle | WINTER RIDGE ENERGY LLC | WYW16989 | WYW16989 | 490112251500S1 | CROOK | BLM | Oil | No | Not Fractured |
| Newcastle | WINTER RIDGE ENERGY LLC | WYW16989 | WYW16989 | 490112090400S1 | CROOK | BLM | Oil | No | Not Fractured |
| Worland | MERIT ENERGY COMPANY | WYW138881X | WYC044140 | 490170571300S1 | HOT SPRINGS | BLM | Oil | No | Not Fractured |
| Roswell | NORDSTRAND ENGINEERING INC. | NMNM046153A | NMNM046153A | 300052076000S1 | CHAVES | BLM | Oil | No | Not Fractured |

Number of Wells Hydraulically Fractured and Relationship to Underground Sources of Drinking Water
(706 well sample)

| Field Office | Operator | American Petroleum | | | Surface | | | Relationship to an Underground Source of Drinking Water (USDW) | |
|--------------|------------------------------|--------------------|--------------|------------------|------------|-------------------|-----------------|--|---------------|
| | | Case Number | Lease Number | Institute Number | County | Management Entity | Oil or Gas Well | | |
| Roswell | NORDSTRAND ENGINEERING INC. | NMNM18503 | NMNM18503 | 300052090100S1 | CHAVES | BLM | Oil | No | Not Fractured |
| Tulsa | CLARK OPERATING INCORPORATED | OKNM75241X | OKGLO08221 | 351410091000S1 | TILLMAN | Non-Federal | Oil | No | Not Fractured |
| Tulsa | CLARK OPERATING INCORPORATED | OKNM75241X | OKG014088 | 351417005900S1 | TILLMAN | Non-Federal | Oil | No | Not Fractured |
| Milwaukee | P & D VALENTINE OIL COMPANY | OHES14356 | OHES14356 | 341676589400S1 | WASHINGTON | USFS | Oil | ****This info is unavailable. | |

*Coal Bed Natural Gas is produced from coal seams containing Underground Sources for Drinking Water. The seam is dewatered to reduce pressure and release the gas, then water is reinjected to fracture the coal and produce gas.

** "Near an Underground Source of Drinking Water" is defined as within the zone of endangering influence which is a fixed radius around the well of not less than ¼ mile.

***Fractured, but not in, below or near an USDW - Means fractured in an area that does not supply a public water system or; in an area that may have sufficient water to supply a public water system but does not currently supply water for human consumption or; does not supply water that is less than 10,000 mg/l total dissolved solids.

****Drilled under private lease that government subsequently acquired.