

FORM  
2A  
Rev  
04/01

State of Colorado  
Oil and Gas Conservation Commission  
1120 Lincoln Street, Suite 801, Denver, Colorado 80205 Phone: (303) 894-2100 Fax: (303) 894-2109



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Document Number:  
400040031

### Oil and Gas Location Assessment

New Location       Amend Existing Location      Location#: 336003

Submit original plus one copy. This form is to be submitted to the COGCC prior to any ground disturbance activity associated with oil and gas development operations. This Assessment may be approved as a stand alone application or submitted as an informational report accompanying an Application for Permit-To-Drill, Form 2. Approval of this Assessment will allow for the construction of the below specified location; however, it does not supersede any land use rules applied by the local land use authority. This form may serve as notice to land owners and other interested parties, please see the COGCC web site at <http://colorado.gov/cogcc/> for all accompanying information pertinent to this Oil and Gas Location Assessment.

Location ID:  
**336003**  
Expiration Date:

This location assessment is included as part of a permit application.

#### 1. CONSULTATION

- This location is included in a Comprehensive Drilling Plan. CDP # \_\_\_\_\_
- This location is in a sensitive wildlife habitat area.
- This location is in a wildlife restricted surface occupancy area.
- This location includes a Rule 306.d.(1)A.ii. variance request.

#### 2. Operator

Operator Number: 10091  
Name: BERRY PETROLEUM COMPANY  
Address: 1999 BROADWAY STE 3700  
City: DENVER State: CO Zip: 80202

#### 3. Contact Information

Name: JANNI KEIDEL  
Phone: (303) 999-4225  
Fax: (303) 999-4325  
email: jek@bry.com

#### 4. Location Identification:

Name: Chevron F31 596 Pad Number: 31-21D  
County: GARFIELD  
Quarter: SNW Section: 31 Township: 5S Range: 96W Meridian: 6 Ground Elevation: 8458  
Define a single point as a location reference for the facility location. This point should be used as the point of measurement in the drawings to be submitted with this application. When the location is to be used as a well site then the point shall be a well location.  
Footage at surface: 2270 feet, from North or South section line: FNL and 605 feet, from East or West section line: FWL  
Latitude: 39.572642 Longitude: -108.215221 PDOP Reading: 3.0 Date of Measurement: 09/19/2007

**5. Facilities (Indicate the number of each type of oil and gas facility planned on location):**

Special Purpose Pits:  Drilling Pits:  1 Wells:  8 Production Pits:  1 Dehydrator Units:   
 Condensate Tanks:  1 Water Tanks:  1 Separators:  3 Electric Motors:  3 Multi-Well Pits:   
 Gas or Diesel Motors:  Cavity Pumps:  LACT Unit:  Pump Jacks:  Pigging Station:   
 Electric Generators:  3 Gas Pipeline:  1 Oil Pipeline:  Water Pipeline:  1 Flare:   
 Gas Compressors:  VOC Combustor:  Oil Tanks:  1 Fuel Tanks:  1

Other: DRILLING RIG TEMPORARY ON LOCATION FOR 10 DAYS PER WELL. SEPARATORS USED WILL BE: 2 QUADS, 1 DOUBLE. TEMPORARY OFFICE AND HOUSING

**6. Construction:**

Date planned to commence construction: 05/01/2010 Size of disturbed area during construction in acres: 5.67  
 Estimated date that interim reclamation will begin: 03/01/2011 Size of location after interim reclamation in acres: 4.48  
 Estimated post-construction ground elevation: 8458 Will a closed loop system be used for drilling fluids: Yes   
 Will salt sections be encountered during drilling: Yes  No  Is H2S anticipated? Yes  No   
 Will salt (>15,000 ppm TDS Cl) or oil based muds be used: Yes  No   
 Mud disposal: Offsite  Onsite  Method: Land Farming  Land Spreading  Disposal Facility   
 Other: \_\_\_\_\_

**7. Surface Owner:**

Name: CHEVRON USA, INC Phone: \_\_\_\_\_  
 Address: 11111 SOUTH WILCREST Fax: \_\_\_\_\_  
 Address: \_\_\_\_\_ Email: \_\_\_\_\_  
 City: HOUSTON State: TX Zip: 77099 Date of Rule 306 surface owner consultation: 02/09/2010  
 Surface Owner:  Fee  State  Federal  Indian  
 Mineral Owner:  Fee  State  Federal  Indian  
 The surface owner is:  the mineral owner  committed to an oil and gas lease  
 is the executor of the oil and gas lease  the applicant  
 The right to construct the location is granted by:  oil and gas lease  Surface Use Agreement  Right of Way  
 applicant is owner  
 Surface damage assurance if no agreement is in place:  \$2000  \$5000  Blanket Surety ID 20040106

**8. Reclamation Financial Assurance:**

Well Surety ID: 20040105  Gas Facility Surety ID: 20040107  Waste Mgmt. Surety ID: \_\_\_\_\_

**9. Cultural:**

Is the location in a high density area (Rule 603.b.): Yes  No   
 Distance, in feet, to nearest building: 9552, public road: 28787, above ground utilit: 27715  
 , railroad: 49841, property line: \_\_\_\_\_

**10. Current Land Use (Check all that apply):**

Crop Land:  Irrigated  Dry land  Improved Pasture  Hay Meadow  CRP  
 Non-Crop Land:  Rangeland  Timber  Recreational  Other (describe): \_\_\_\_\_  
 Subdivided:  Industrial  Commercial  Residential

**11. Future Land Use (Check all that apply):**

Crop Land:  Irrigated  Dry land  Improved Pasture  Hay Meadow  CRP  
Non-Crop Land:  Rangeland  Timber  Recreational  Other (describe): \_\_\_\_\_  
Subdivided:  Industrial  Commercial  Residential

**12. Soils:**

List all soil map units that occur within the proposed location. Attach the National Resource Conservation Service (NRCS) report showing the "Map Unit Description" report listing the soil typical vertical profile. This data is to used when segregating topsoil.

The required information can be obtained from the NRCS web site at <http://soildatamart.nrcs.usda.gov/> or from the COGCC web site GIS Online map page found at <http://colorado.gov/cogcc>. Instructions are provided within the COGCC web site help section.

NRCS Map Unit Name: # 56 PARACHUTE-IRIGUL-RHONE ASSOCIATION, 25 TO 50 PERCENT SLOPES  
NRCS Map Unit Name: \_\_\_\_\_  
NRCS Map Unit Name: \_\_\_\_\_

**13. Plant Community:**

Complete this section only if any portion of the disturbed area of the location's current land use is on non-crop land.

Are noxious weeds present: Yes  No   
Plant species from:  NRCS or,  field observation Date of observation: 09/19/2007  
List individual species: SAGE BRUSH, OAK BRUSH

Check all plant communities that exist in the disturbed area.

- Disturbed Grassland (Cactus, Yucca, Cheatgrass, Rye)
- Native Grassland (Bluestern, Grama, Wheatgrass, Buffalograss, Fescue, Oatgrass, Brome)
- Shrub Land (Mahogany, Oak, Sage, Serviceberry, Chokecherry)
- Plains Riparian (Cottonwood, Willow, Aspen, Maple, Poplar, Russian Olive, Tamarisk)
- Mountain Riparian (Cottonwood, Willow, Blue Spruce)
- Forest Land (Spruce, Fir, Ponderosa Pine, Lodgepole Pine, Juniper, Pinyon, Aspen)
- Wetlands Aquatic (Bullrush, Sedge, Cattail, Arrowhead)
- Alpine (above timberline)
- Other (describe): \_\_\_\_\_

**14. Water Resources:**

Rule 901.e. may require a sensitive area determination be performed. If this determination is performed the data is to be submitted with the Form 2A.

Is this a sensitive area:  No  Yes Was a Rule 901.e. Sensitive Areas Determination performed:  No  Yes  
Distance (in feet) to nearest surface water: 714, water well: 8970, depth to ground water: 200  
Is the location in a riparian area:  No  Yes Was an Army Corps of Engineers Section 404 permit filed  No  Yes  
Is the location within a Rule 317B Surface Water Suppl Area buffer zone:  
 No  0-300 ft. zone  301-500 ft. zone  501-2640 ft. zone  
If the location is within a Rule 317B Surface Water Supply Area buffer have all public water supply systems within 15 miles been notified:  No  Yes

**15. Comments:**

Berry Petroleum Company-Best Management Practices-Chevron F31 596 Well Pad (8 wells)  
The following is a list of Best Management Practices that will be implemented by Berry Petroleum Company during the pad construction, well drilling, well completion, natural gas production, and reclamation phases of activity on the Chevron F31 596 location. A total of eight wells will be directionally drilled from the F31 596 well pad. Directional drilling has enabled Berry Petroleum Company to reduce the number of well pads required for gas recovery and will minimize surface damage. The F31 596 well pad will be constructed adjacent to an existing access road. This eliminates the need to construct an additional road for access and avoids additional surface disturbance. In general, Berry Petroleum Company will comply with applicable federal, state and local statutes, rules, regulations and ordinances, including, those of OSHA, the COGCC and CDPHE relating to safety and the environment. During construction of the well pad, topsoil will be isolated from other soils and placed and stacked per COGCC requirements. All cuts, full slopes, pit and topsoil piles and soil piles will be stabilized and revegetated immediately following construction. The pad will be constructed in compliance with CDPHE Stormwater Discharge regulations. The reserve/completion pit will be fenced/flagged and/or netted to prevent entry of wildlife (including birds) and livestock. Bear-proof dumpsters or trash cages will be used on the location for solid/food waste storage. Noxious weeds will be controlled. Temporary housing for the drill rig crews will meet all Garfield County regulations. The housing quarters will receive 24/7 supervision by Berry Petroleum Company. Production tanks shall be placed on a non-permeable liner and surrounded by a metal containment wall at least 3-feet high. During the reclamation phase, all areas of soil disturbance will be smooth graded, cultivated to provide a loose seed bed of a minimum of 6 inches in depth, fertilized with 250 pounds of 46-0-0 per acre, seeded with the seed mixture specified by the surface owner, and mulched with 1-1/2 tons of grass hay crimped into the soil.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.

Signed: Janni Keidel Date: 02/25/2010 Email: jek@bry.com

Print Name: JANNI KEIDEL Title: PERMITTING AGENT

Based on the information provided herein, this Application for Permit-to-Drill complies with COGCC Rules and applicable orders and is hereby approved.

COGCC Approved: \_\_\_\_\_ Director of COGCC Date: \_\_\_\_\_

**Attachment Check List**

| Att Doc Num | Name                   | Doc Description                                 |
|-------------|------------------------|---|
| 400040046   | CONST. LAYOUT DRAWINGS | F31 596 Pad-Const. Layout Drawings 1 thru 5.pdf |
| 400040047   | MULTI-WELL PLAN        | F31 596 Pad-Multi Well Plan.pdf                 |
| 400040048   | REFERENCE AREA MAP     | F31 596 Pad-Reference Area Map.pdf              |
| 400040049   | LOCATION DRAWING       | F31 596 Pad-Location Drawing.pdf                |
| 400040050   | HYDROLOGY MAP          | F31 596 Pad-Hydrology Map.pdf                   |
| 400040052   | ACCESS ROAD MAP        | F31 596 Pad-Access Road Map.pdf                 |
| 400043086   | PROPOSED BMPs          | Proposed BMP's - F31 596 Pad.pdf                |
| 400043087   | EQUIPMENT LIST         | Equipment List - F31 596 Pad.pdf                |

Total Attach: 8 Files