

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



DE	ET	OE	ES
----	----	----	----

Document Number:

400012430

### Oil and Gas Location Assessment

New Location       Amend Existing Location      Location#: \_\_\_\_\_

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:

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) 999-4235

email: jek@bry.com

#### 4. Location Identification:

Name: OXY Number: I21 697

County: GARFIELD

Quarter: NESE Section: 21 Township: 6S Range: 97W Meridian: 6 Ground Elevation: 8366

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: 1795 feet, from North or South section line: FSL and 527 feet, from East or West section line: FEL

Latitude: 39.506164 Longitude: -108.217300 PDOP Reading: 3.7 Date of Measurement: 01/29/2007

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

Special Purpose Pits:  Drilling Pits:  1 Wells:  17 Production Pits:  1 Dehydrator Units:   
Condensate Tanks:  Water Tanks:  1 Separators:  3 Electric Motors:  Multi-Well Pits:   
Gas or Diesel Motors:  6 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 & HOUSING

**6. Construction:**

Date planned to commence construction: 03/01/2010 Size of disturbed area during construction in acres: 4.81  
Estimated date that interim reclamation will begin: 08/15/2011 Size of location after interim reclamation in acres: 2.38  
Estimated post-construction ground elevation: 8366 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 CI) or oil based muds be used: Yes  No   
Mud disposal: Offsite  Onsite  Method: Land Farming  Land Spreading  Disposal Facility   
Other: \_\_\_\_\_

**7. Surface Owner:**

Name: OXY USA, INC. Phone: \_\_\_\_\_  
Address: 5 GREENWAY, SUITE # 110 Fax: \_\_\_\_\_  
Address: \_\_\_\_\_ Email: \_\_\_\_\_  
City: HOUSTON State: TX Zip: 77046 Date of Rule 306 surface owner consultation: 02/08/2010  
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 executer 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: 20040106  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: 9742, public road: 3590, above ground utilit: 27577  
, railroad: 37744, property line: 1987

**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: #57 Parachute-Rhone loams. 5 to 30 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: 01/29/2007  
List individual species: SAGE 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: 2377, water well: 10000, depth to ground water: 300  
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 -Oxy-I21 697 Well Pad (17 wells) -A total of seventeen wells will be directionally drilled from the I21 697 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 I21 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: 02/10/2010 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
400037903	HYDROLOGY MAP	1000' Buffer for Water Wells Topo # C - Oxy .pdf
400037904	MULTI-WELL PLAN	Multi Well Plan Drawing - Oxy I21 697 Pad.pdf
400037905	CONST. LAYOUT DRAWINGS	Production Equipment Layout Drawing - Oxy I21 697 Pad.pdf
400037906	TOPO MAP	Location Topo # A.pdf
400037907	CONST. LAYOUT DRAWINGS	Current Footages-RR, Utilities, etc Plat # 6A - Oxy I21 697 Pad.pdf
400037908	REFERENCE AREA PICTURES	Reference Area Pictures - Oxy I21 697.pdf
400037909	REFERENCE AREA MAP	Reference Area Map - Supplemental Plat - Oxy I21 697 Pad.pdf
400037911	LOCATION DRAWING	Location Drawing - Oxy I21 697 Pad.pdf
400037912	LOCATION PICTURES	Location Pictures - Oxy I21 697.pdf
400037913	CONST. LAYOUT DRAWINGS	Const Layout Drawings-Cross Sections - Oxy I21 697 Pad.pdf
400037914	TOPO MAP	Pipeline Topo # D - Oxy I21 697 Pad.pdf
400037915	ACCESS ROAD MAP	Access Road Map - Topo # B - Oxy I21 697 Pad.pdf
400037916	EQUIPMENT LIST	Equip List - OXY I21 697 Pad.pdf
400037917	PROPOSED BMPs	Proposed BMP's - OXY I21 697 Pad.pdf

Total Attach: 14 Files