

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:

400077440

Oil and Gas Location Assessment

☐ New Location ☒ Amend Existing Location Location#: 383337

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:

383337

Expiration Date:

09/19/2013☒ 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: 66571

Name: OXY USA WTP LP

Address: P O BOX 27757

City: HOUSTON State: TX Zip: 77227

3. Contact Information

Name: Joan Proulx

Phone: (970) 263.3641

Fax: (970) 263.3694

email: joan_proulx@oxy.com

4. Location Identification:

Name: Cascade Creek Number: 608-43-31

County: GARFIELD

Quarter: NESE Section: 8 Township: 6S Range: 97W Meridian: 6 Ground Elevation: 8479

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: 2177 feet, from North or South section line: FSL and 967 feet, from East or West section line: FEL

Latitude: 39.536176 Longitude: -108.237584 PDOP Reading: 1.5 Date of Measurement: 07/01/2010

Instrument Operator's Name: John Richardson

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

Special Purpose Pits: <input type="text"/>	Drilling Pits: <input type="text" value="1"/>	Wells: <input type="text" value="19"/>	Production Pits: <input type="text"/>	Dehydrator Units: <input type="text"/>
Condensate Tanks: <input type="text" value="1"/>	Water Tanks: <input type="text" value="3"/>	Separators: <input type="text" value="5"/>	Electric Motors: <input type="text"/>	Multi-Well Pits: <input type="text"/>
Gas or Diesel Motors: <input type="text"/>	Cavity Pumps: <input type="text"/>	LACT Unit: <input type="text"/>	Pump Jacks: <input type="text"/>	Pigging Station: <input type="text" value="1"/>
Electric Generators: <input type="text"/>	Gas Pipeline: <input type="text" value="1"/>	Oil Pipeline: <input type="text"/>	Water Pipeline: <input type="text" value="1"/>	Flare: <input type="text"/>
Gas Compressors: <input type="text"/>	VOC Combustor: <input type="text" value="1"/>	Oil Tanks: <input type="text"/>	Fuel Tanks: <input type="text"/>	

Other: _____

6. Construction:

Date planned to commence construction: 02/15/2011 Size of disturbed area during construction in acres: 3.50
Estimated date that interim reclamation will begin: 06/25/2013 Size of location after interim reclamation in acres: 1.50
Estimated post-construction ground elevation: 8477 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: Onsite reserve pit

7. Surface Owner:

Name: _____ Phone: _____
Address: _____ Fax: _____
Address: _____ Email: _____
City: _____ State: _____ Zip: _____ Date of Rule 306 surface owner consultation: _____
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 _____

8. Reclamation Financial Assurance:

☐ Well Surety ID: 20060137 ☐ Gas Facility Surety ID: _____ ☐ Waste Mgnt. Surety ID: _____

9. Cultural:

Is the location in a high density area (Rule 603.b.): Yes ☐ No ☒
Distance, in feet, to nearest building: 3754, public road: 25344, above ground utilit: 55968
, railroad: 61248, property line: 3492

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): Native woods
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): Native woods
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 be 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: Map Unit Symbp: 55

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: _____

List individual species: Lettermans' needlegrass, Slender wheatgrass, Arizona fescue, Columbia needlegrass, Mountain big sagebrush, Big bluegrass, Mountain snowberry, Saskatoon serviceberry, Yellow rabbitbrush

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: 304, water well: 14686, depth to ground water: 100

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 Supply 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:

The plat references a blooie pit; this is not a pit but a flare box. A Form 4 sundry was submitted 6/18/2010 to cancel location #383337; copy attached. Per GarCo Vacation Ordinance dated 10/05/1987 CR 213 is now OXY's private road North of S8, T7S, R97W, 6th PM; The well pad has been constructed and has previously permitted wells under the old COGCC rules; Oxy is submitting a form 2A due to adding 9 wells (total wells on pad will be 18); Oxy is both the surface and mineral owner of the pad location. Oxy pre-consulted with the CDOW on 07/16/2010.

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

Signed: _____ Date: 07/21/2010 Email: joan_proulx@oxy.com

Print Name: Joan Proulx Title: Regulatory Analyst

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

David S. Neslin

COGCC Approved: _____

Director of COGCC

Date: 9/20/2010

CONDITIONS OF APPROVAL, IF ANY:

All representations, stipulations and conditions of approval stated in this Form 2A for this location shall constitute representations, stipulations and conditions of approval for any and all subsequent operations on the location unless this Form 2A is modified by Sundry Notice, Form 4 or an Amended Form 2A.

No portion of any pit that will be used to hold liquids shall be constructed on fill material, unless the pit and fill slope are designed and certified by a professional engineer, subject to review and approval by the director prior to construction of the pit. The construction and lining of the pit shall be supervised by a professional engineer or their agent. The entire base of the pit must be in cut.

The nearby hillside must be monitored for any day-lighting of drilling fluids throughout the drilling of the surface casing interval.

Notice to Operators (NTO) Drilling Wells on the Roan Plateau in Garfield County: Operator must comply with all provisions of the June 12, 2008 Notice to Operators (NTO) Drilling Wells Within $\frac{3}{4}$ Mile of the Rim of the Roan Plateau in Garfield County – Pit Design, Construction, and Monitoring Requirements. At a minimum, the following condition of approval (COA) will apply:
COA 6 - All pits must be lined.

Operator must ensure 110 percent secondary containment for any volume of fluids contained at well site during drilling and completion operations. If fluids are conveyed via pipeline, operator must implement best management practices to contain any unintentional release of fluids.

The moisture content of any drill cuttings in a cuttings pit, trench, or pile shall be as low as practicable to prevent accumulation of liquids greater than de minimis amounts. At the time of closure, the drill cuttings must also meet the applicable standards of table 910-1.

Reserve pit (or any other pit used to contain/hold fluids) must be lined or a closed loop system must be implemented during drilling.

Attachment Check List

Att Doc Num	Name	Doc Description
2033272	CONST. LAYOUT DRAWINGS	LF@2515227 2033272
2033296	CORRESPONDENCE	LF@2522346 2033296
2089306	REFERENCE AREA MAP	LF@2544387 2089306
2089307	ACCESS ROAD MAP	LF@2544380 2089307
2089308	CONST. LAYOUT DRAWINGS	LF@2544382 2089308
2089309	CONST. LAYOUT DRAWINGS	LF@2544383 2089309
2089310	CONST. LAYOUT DRAWINGS	LF@2544381 2089310
2089311	HYDROLOGY MAP	LF@2544384 2089311
2089312	LOCATION DRAWING	LF@2544385 2089312
2089313	MULTI-WELL PLAN	LF@2544386 2089313
2089314	SURFACE PLAN	LF@2544388 2089314
400077440	FORM 2A SUBMITTED	LF@2510818 400077440
400077453	PROPOSED BMPs	LF@2510819 400077453
400077470	NRCS MAP UNIT DESC	LF@2510821 400077470
400077471	LOCATION PICTURES	LF@2510822 400077471
400077516	PROPOSED BMPs	LF@2510824 400077516

Total Attach: 16 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Added attachments to permit, nine separate files broken out from single attachment	9/20/2010 5:54:32 PM
Permit	All changes verbally approved by Joan Proulx	9/13/2010 3:20:54 PM
Permit	Location id changed to 383337	9/9/2010 11:28:10 AM
OGLA	Initiated/Completed OGLA Form 2A review on 07-30-10 by Dave Kubeczko; requested clarifications and acknowledgement of fluid containment, spill/release BMPs, monitoring of hillside, lined pits/closed loop, all pits lined, no pit in fill, cuttings low moisture COAs and Roan Rim NTO from operator on 07-30-10; received clarifications and acknowledgement of COAs from operator on 07-?-10; passed by CDOW on 07-22-10, with operator submitted (with permit application) BMPs acceptable; passed OGLA Form 2A review on 08-12-10 by Dave Kubeczko; fluid containment, spill/release BMPs, monitoring of hillside, lined pits/closed loop, all pits lined, no pit in fill, cuttings low moisture COAs and Roan Rim NTO.	8/11/2010 6:59:31 PM
DOW	The BMPs as submitted by the operator are appropriate to the site and species habitat. CDOW and Oxy preconsulted on 7-16-10 and agreed to BMPs for the site; they are the same as included in this Form 2A submittal. by Michael Warren on Thursday, July 22, 2010 at 10:20 A.M.	7/30/2010 10:47:59 AM

Total: 5 comment(s)

Error: Subreport could not be shown.