

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:

400090946

Oil and Gas Location Assessment

☐ New Location
 ☒ Amend Existing Location
 Location#: 335815

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:

335815

Expiration Date:

10/18/2013☒ 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: 697-08-53

County: GARFIELD

Quarter: NWSE Section: 8 Township: 6S Range: 97W Meridian: 6 Ground Elevation: 8379

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: 1384 feet, from North or South section line: FSL and 2155 feet, from East or West section line: FEL

Latitude: 39.533992 Longitude: -108.241792 PDOP Reading: 0.9 Date of Measurement: 09/01/2010

Instrument Operator's Name: James Seal

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="17"/>	Production Pits: <input type="text"/>	Dehydrator Units: <input type="text"/>
Condensate Tanks: <input type="text" value="1"/>	Water Tanks: <input type="text" value="4"/>	Separators: <input type="text" value="4"/>	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"/>
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: Separators: 4-4 packs plus 1 single separator

6. Construction:

Date planned to commence construction: 11/01/2010 Size of disturbed area during construction in acres: 5.60
Estimated date that interim reclamation will begin: 05/01/2012 Size of location after interim reclamation in acres: 2.30
Estimated post-construction ground elevation: 8379 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: _____ 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: 4544, public road: 56496, above ground utilit: 56496
, railroad: 61248, property line: 3134

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 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 Symbol 55. Parachute-Irigul complex, 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: _____

List individual species: Letterman's 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: 381, water well: 5007, depth to ground water: 190

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:

Oxy is both the surface and mineral owner; Rule 305 and 306 are waived. The well pad has been constructed and there is one producing well on this location. Oxy will be drilling an additional 16 wells on this pad. A semi-closed loop system will be used. Oxy will provide appropriate housing for essential personnel in order to conduct safe, efficient drilling operations at this well site. The plat references a "blooie pit," this is not a pit but a flare box. Per GarCo Vacation Ordinance dated 10-5-1987, CR 213 is now OXY's private property north of Sec 8, 7S, 97W, 6 PM. The CDOW pre-consultation meeting occurred July 16, 2010. Oxy will comply with Notice to Operators (NTO) Drilling Wells on the Roan Plateau (June 12, 2008).

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

Signed: _____ Date: 09/08/2010 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.

COGCC Approved: _____

Director of COGCC

Date: 10/19/2010

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.

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

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.

Location is in a sensitive area because of close proximity to surface water, therefore, operator must ensure 110 percent secondary containment for any volume of fluids contained at well site during drilling and completion operations.

Operator must implement best management practices to contain any unintentional release of fluids.

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.

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.

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.

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

Attachment Check List

Att Doc Num	Name	Doc Description
2033428	CORRESPONDENCE	LF @ 2569822 2033428
400090946	FORM 2A SUBMITTED	LF @ 2539652 400090946
400090949	PROPOSED BMPs	LF @ 2539653 400090949
400090950	PROPOSED BMPs	LF @ 2539654 400090950
400090955	ACCESS ROAD MAP	LF @ 2539655 400090955
400090956	CONST. LAYOUT DRAWINGS	LF @ 2539657 400090956
400090957	HYDROLOGY MAP	LF @ 2539658 400090957
400090958	CONST. LAYOUT DRAWINGS	LF @ 2539659 400090958
400090959	LOCATION DRAWING	LF @ 2539660 400090959
400090960	LOCATION PICTURES	LF @ 2539662 400090960
400090961	MULTI-WELL PLAN	LF @ 2539663 400090961
400090963	NRCS MAP UNIT DESC	LF @ 2539664 400090963
400090964	REFERENCE AREA PICTURES	LF @ 2539665 400090964
400090965	REFERENCE AREA MAP	LF @ 2539666 400090965

Total Attach: 14 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
OGLA	Initiated/Completed OGLA Form 2A review on 09-20-10 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 09-20-10; received clarifications and acknowledgement of COAs from operator on 09-?-10; changed to sensitive area, distance to water well, and depth to GW; passed by CDOW on 09-10-10, with operator submitted (with permit application) BMPs acceptable; passed OGLA Form 2A review on 10-01-10 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.	9/20/2010 10:44:14 AM

Industry	<p>The Lease Description for Oxy's Cascade Creek field has been updated effective 9/15/2010; text is below. The change increases the total acreage to 9,520 acres.</p> <p>OXY USA WTP LP</p> <p>Fee Description</p> <p>Township 6S, Range 97W</p> <p>Section 3 Lots 9, 10, 11,12,13,14,15,16, S2</p> <p>Section 4 Lots 9, 10, 11,12,13,14,15,16, S2</p> <p>Section 5 Lots 9, 10, 11,12,13,14,15,16, S2</p> <p>Section 6 Lots 13,14,15,16, 17, 18, 22, 23, 24, 25, E2SW4, SE4</p> <p>Section 8 All</p> <p>Section 9 All</p> <p>Section 10 All</p> <p>Section 15 NW4, E2</p> <p>Section 16 All</p> <p>Section 17 All</p> <p>Section 18 E2, SE4NW4</p> <p>Section 19 NE4, E2NW4NW4, E2SW4NW4</p> <p>Section 20 All</p> <p>Section 29 All</p> <p>Section 32 Lots 1, 2, 3 and 4</p> <p>Township 7S, Range 97W</p> <p>Section 5 Tracts 80, 81, 82 a and b, 83 a and b</p> <p>Section 6 Tracts 84, 85, 86 and 87</p> <p>Section 7 Tracts 88, 89, 90 and 91</p> <p>Containing 9,520 acres</p> <p>Rev. 9/15/2010</p>	<p>9/17/2010 8:09:14 AM</p>
DOW	<p>The BMPs submitted by the operator were developed and agreed upon in consultation between the operator and CDOW on July 16, 2010. The BMPs as submitted by the operator are appropriate for this pad site and species affected.</p> <p>by Michael Warren on Friday, September 10, 2010 at 3:20 P.M.</p>	<p>9/10/2010 3:17:28 PM</p>
Permit	<p>given new lat/longs by email (had mixed up BHL lat/longs) = 39.533992 and -108.241792</p>	<p>9/10/2010 1:40:00 PM</p>
Permit	<p>SENW vs. NWSE CORRECTION FOR WHERE IT PLOTS - BUT IT LOOKS LIKE IT'S THE LAT/LONG THAT IS INCORRECT; CALL MSG IN TO THE OPR (JOAN) reproof when all this is clarified</p>	<p>9/10/2010 12:21:52 PM</p>

Industry	<p>9/9/2010: I received from the surveyor corrected plats for the 697-08-53 pad, document 400090946. The surveyor had omitted extending a fill line into the west side of the pad.</p> <p>I have not been able to attach scans of the updated plats; please advise to whom the updated plats should be sent.</p> <p>Thank you.</p>	9/9/2010 3:16:00 PM
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Total: 6 comment(s)

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