

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:

400097155

## Oil and Gas Location Assessment

☐ New Location
 ☒ Amend Existing Location
 Location#: 334142

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:

**334142**

Expiration Date:

**11/25/2013**☒ 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: 100185

Name: ENCANA OIL & GAS (USA) INC

Address: 370 17TH ST STE 1700

City: DENVER State: CO Zip: 80202-5632

## 3. Contact Information

Name: MIRACLE PFISTER

Phone: (720) 876-3761

Fax: (720) 876-4861

email: miracle.pfister@encana.com

## 4. Location Identification:

Name: ORCHARD UNIT Number: 15-12H2 (D14OU)

County: MESA

Quarter: NWNW Section: 14 Township: 8S Range: 96W Meridian: 6 Ground Elevation: 5963

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: 590 feet FNL, from North or South section line, and 405 feet FWL, from East or West section line.

Latitude: 39.355701 Longitude: -108.084201 PDOP Reading: 0.0 Date of Measurement: 03/03/2010

Instrument Operator's Name: C.D. SLAUGH

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

Special Purpose Pits: <input type="text" value="1"/>	Drilling Pits: <input type="text" value="0"/>	Wells: <input type="text" value="7"/>	Production Pits: <input type="text" value="0"/>	Dehydrator Units: <input type="text" value="0"/>
Condensate Tanks: <input type="text" value="4"/>	Water Tanks: <input type="text" value="0"/>	Separators: <input type="text" value="7"/>	Electric Motors: <input type="text" value="0"/>	Multi-Well Pits: <input type="text" value="0"/>
Gas or Diesel Motors: <input type="text" value="0"/>	Cavity Pumps: <input type="text" value="0"/>	LACT Unit: <input type="text" value="0"/>	Pump Jacks: <input type="text" value="0"/>	Pigging Station: <input type="text" value="0"/>
Electric Generators: <input type="text" value="0"/>	Gas Pipeline: <input type="text" value="1"/>	Oil Pipeline: <input type="text" value="0"/>	Water Pipeline: <input type="text" value="1"/>	Flare: <input type="text" value="0"/>
Gas Compressors: <input type="text" value="0"/>	VOC Combustor: <input type="text" value="0"/>	Oil Tanks: <input type="text" value="0"/>	Fuel Tanks: <input type="text" value="0"/>	

Other: \_\_\_\_\_

## 6. Construction:

Date planned to commence construction: 11/30/2010 Size of disturbed area during construction in acres: 5.56  
Estimated date that interim reclamation will begin: 04/02/2012 Size of location after interim reclamation in acres: 1.06  
Estimated post-construction ground elevation: 5963 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: 12/15/2005  
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: \_\_\_\_\_ ☐ 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: 847, public road: 953, above ground utilit: 1741  
, railroad: 17054, property line: 590

## 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: # 58 Potts-Ildefonso complex, 12 to 25 % 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: \_\_\_\_\_  
\_\_\_\_\_

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: 540, water well: 840, depth to ground water: 181

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 depth to ground water is based on a water well (#206260) that is located 1200' away. A reference area map is not required because the reference area is adjacent to the pad. The reference area is to the west. The surface is fee and the Surface Damage Agreement will be attached to the APDs that will be submitted.

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

Signed: \_\_\_\_\_ Date: 10/04/2010 Email: miracle.pfister@encana.com

Print Name: Miracle Pfister 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: 11/26/2010

**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.**

Either a lined drilling pit or a closed loop system (which operator has already indicated on the Form 2A) must be implemented.

Operator must ensure 110 percent secondary containment for any volume of fluids contained at well site during drilling and completion operations; including, but not limited to, construction of a berm or diversion dike, diversion/collection trenches within and/or outside of berms/dikes, site grading, or other comparable measures (i.e., BMPs associated with stormwater management) sufficiently protective of the nearby surface water.

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.

Operator must implement best management practices to contain any unintentional release of fluids. All pits containing fluids (if constructed; reserve pit, production pit, frac pit) must be lined.

If fluids are conveyed via pipeline, operator must implement best management practices to contain any unintentional release of fluids.

**Attachment Check List**

Att Doc Num	Name
1791889	LOCATION DRAWING
2033474	CORRESPONDENCE
400097155	FORM 2A SUBMITTED
400097241	ACCESS ROAD MAP
400097242	LOCATION DRAWING
400097260	MULTI-WELL PLAN
400097263	CONST. LAYOUT DRAWINGS
400097264	HYDROLOGY MAP
400097266	PROPOSED BMPs
400097401	LOCATION PICTURES
400097403	REFERENCE AREA PICTURES
400097950	NRCS MAP UNIT DESC

Total Attach: 12 Files

**General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
Permit	RECEIVED NEW LOCATION DRAWING WITH A CORRECTED DISTANCE OF 847' FOR NEAREST BUILDING, INSERTED LOCATION DRAWING AND MADE CHANGES IN LINE 1 OF SECTION V TO CORRECT NUMBER OF WELLS.	11/10/2010 11:42:26 AM
Permit	EMAILED MIRACLE WITH REQUEST FOR REVIEW OF DISTANCE TO NEAREST BUILDING. FORM SAYS 1741' LOOKS TO BE CLOSER TO 800'	11/9/2010 12:04:26 PM
OGLA	Initiated/Completed OGLA Form 2A review on 10-19-10 by Dave Kubeczko; requested clarifications and acknowledgement of fluid containment, spill/release BMPs, cuttings low moisture content, closed loop/lined pits COAs from operator on 10-19-10; received clarifications and acknowledgement of COAs from operator on 10-19-10; no CDOW; passed OGLA Form 2A review on 10-29-10 by Dave Kubeczko; fluid containment, spill/release BMPs, cuttings low moisture content, closed loop/lined pits COAs.	10/19/2010 12:37:03 PM
Permit	Permission from Opr - Miracle P. to delete plugging bond. NRCS map now opens.	10/7/2010 1:05:37 PM
Permit	push back to draft NRCS map will not open.	10/5/2010 3:26:30 PM

Total: 5 comment(s)

**BMP**

<b><u>Type</u></b>	<b><u>Comment</u></b>

Total: 0 comment(s)