

**FORM  
2A**Rev  
04/01State 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:

400083695

**Oil and Gas Location Assessment**☐ New Location ☒ Amend Existing Location Location#: 334379

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:

**334379**

Expiration Date:

**10/29/2013**☒ 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: 18-9HM

County: MESA

Quarter: NESW Section: 20 Township: 8S Range: 96W Meridian: 6 Ground Elevation: 5929

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: 1457 feet, from North or South section line: FSL and 1689 feet, from East or West section line: FWL

Latitude: 39.332083 Longitude: -108.135192 PDOP Reading: 1.8 Date of Measurement: 05/21/2010

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: <u>1</u>	Drilling Pits: <u>0</u>	Wells: <u>6</u>	Production Pits: <u>0</u>	Dehydrator Units: <u>0</u>
Condensate Tanks: <u>3</u>	Water Tanks: <u>3</u>	Separators: <u>6</u>	Electric Motors: <u>0</u>	Multi-Well Pits: <u>0</u>
Gas or Diesel Motors: <u>0</u>	Cavity Pumps: <u>0</u>	LACT Unit: <u>0</u>	Pump Jacks: <u>0</u>	Pigging Station: <u>0</u>
Electric Generators: <u>0</u>	Gas Pipeline: <u>1</u>	Oil Pipeline: <u>0</u>	Water Pipeline: <u>0</u>	Flare: <u>0</u>
Gas Compressors: <u>0</u>	VOC Combustor: <u>0</u>	Oil Tanks: <u>0</u>	Fuel Tanks: <u>0</u>	

Other: The special purpose pit is a flare pit and a follow-up form 15 will be submitted after it is built.

## 6. Construction:

Date planned to commence construction: 09/16/2010 Size of disturbed area during construction in acres: 7.35  
Estimated date that interim reclamation will begin: 05/01/2012 Size of location after interim reclamation in acres: 1.92  
Estimated post-construction ground elevation: 5929 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: \_\_\_\_\_ ☐ 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: 2640, public road: 2399, above ground utilit: 2640  
, railroad: 57024, property line: 2635

## 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: 4 - BARX-CLAPPER COMPLEX, 3 TO 12 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: \_\_\_\_\_

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: 460, water well: 1540, depth to ground water: 60

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 Reference area is adjacent to the pad in the southern direction. A reference area map is not required. Reference area pictures are being taken and will be submitted separately. THIS IS FEDERAL SURFACE AND MINERALS AND FEDERAL APDS ARE BEING SUBMITTED AND WILL BE ATTACHED TO THE INDIVIDUAL APDS SUBMITTED TO THE COGCC.

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

Signed: \_\_\_\_\_ Date: 08/10/2010 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: 10/30/2010

**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.**

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.

Location is in a sensitive area because of proximity to surface water (intermittent stream to the west); therefore, 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.

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.

All pits containing fluids (if constructed; reserve pit, production pit, frac pit) must be lined.

**Attachment Check List**

Att Doc Num	Name	Doc Description
2033345	CORRESPONDENCE	LF@2537857 2033345
400083695	FORM 2A SUBMITTED	LF@2521684 400083695
400083848	LOCATION PICTURES	LF@2521685 400083848
400083849	LOCATION DRAWING	LF@2521688 400083849
400083850	HYDROLOGY MAP	LF@2521690 400083850
400083852	ACCESS ROAD MAP	LF@2521696 400083852
400083853	NRCS MAP UNIT DESC	LF@2521699 400083853
400083854	CONST. LAYOUT DRAWINGS	LF@2521701 400083854
400083855	MULTI-WELL PLAN	LF@2521705 400083855
400083857	PROPOSED BMPs	LF@2521706 400083857

Total Attach: 10 Files

**General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
Permit	RECEIVED SUNDRIES TO ABANDON LOCATIONS ON 20-11, 20-10 & 20-14 BY	10/29/2010 6:10:22 AM
Permit	ON HOLD - waiting for info to Bill from Miracle	9/30/2010 1:39:30 PM
Permit	Requested Miracle Pfister to clairify the number of wells on this pad. Don't have sundries that might have changed SHL on the 20-14 & 20-10 or 20-11.	9/22/2010 12:18:36 PM
DOW	CDOW has reviewed the applicant's BMPs/COAs for this permit.CDOW affirms that the BMPs as submitted by the operator and the lease stipulations and conditions of approval assigned to this permit by the BLM suffice to address wildlife habitat and mitigation concerns.  by Michael Warren on Monday, September 20. 2010 at 8:30 A.M.	9/20/2010 8:29:33 AM
OGLA	Initiated/Completed OGLA Form 2A review on 08-16-10 by Dave Kubeczko; requested clarifications and acknowledgement of close SW fluid containment, spill/release BMPs, cuttings low moisture content, no pit in fill, all pits lined COAs from operator on 08-16-10; received clarifications and acknowledgement of COAs from operator on 09-08-10; passed by CDOW on 09-20-10, with operator submitted (with permit application) BMPs and BLM stipulations and COAs acceptable; passed OGLA Form 2A review on 09-20-10 by Dave Kubeczko; fluid containment, spill/release BMPs, cuttings low moisture content, no pit in fill, all pits lined COAs.	8/16/2010 5:54:06 PM

Total: 5 comment(s)

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